



The Ohio State University Bulletin

JANUARY 1949

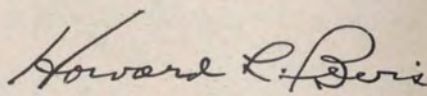
Seventy-Eighth Annual Report of the
President of the Ohio State University
to the Board of Trustees, the Governor, and Citizens of Ohio

THE HONORABLE HERBERT S. ATKINSON
Chairman, Board of Trustees
The Ohio State University

Sir:

I have the honor to present through you to the Board of Trustees of The Ohio State University, for transmission to the Governor of the State of Ohio, the seventy-eighth annual report of The Ohio State University for the year ending June 30, 1948.

Respectfully submitted,


HOWARD L. BEVIS, *President*

PUBLISHED BY THE UNIVERSITY AT COLUMBUS

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The Ohio State University Bulletin is issued twenty-six times during the year; once each month in August, September, October, November, and December; twice each month in January, February, and March; three times each month in April, and four times each month in May, June, and July.

A Year of Fruition

ON THE EVE of its 75th anniversary, during a period of continued record-breaking enrollment, The Ohio State University late in 1947 began construction in the greatest phase of the expansion of its physical facilities. Ground was broken for the future home of the School of Music and the Medical Health Center. Prospects were that the entire program of twelve new buildings and additions to three others would be under contract by the year's end.

We were elated over the new buildings made possible by the legislative appropriation of \$18,641,000; yet we knew the task was far from complete. Plans for the future were taking shape—plans which would provide needed facilities in many other important areas. A new center for the College of Agriculture, located west of the Olentangy River, an adequate Law Building, and a Veterinary Medicine Building were among the needed additions envisaged in the long-range planning.

The year found us with an enrollment that in the Autumn of 1947 reached the unprecedented total of 25,456. A U. S. Office of Education report listed us as fifth largest in the nation. Included in this student body were 14,473 veterans of World War II. By the end of the year, covered by this report, 2,220 veterans had received their degrees, out of a total of 4,536 degrees awarded. Regrets at the inadequacy of many of our facilities were eased by the knowledge that the fulfillment of our expansion plans was under way.

During the year the Board of Trustees declared the proposed new student Union Building a "going project." The



Howard Landis Bevis

students were polled as to the facilities they wanted included in the building, the building which they were financing. A site was selected and the architects soon were set to work on preliminary drawings for the new structure. Preliminary estimates of cost indicated that the building would require some \$5,000,000.

It was also a year of acute losses. The death of Julius F. Stone on July 25, 1947, ended the life of one of the University's greatest benefactors. In grateful memory the Board of Trustees, meeting in September, 1947, authorized the creation of the Julius F. Stone Research Professorship in Physics to perpetuate "his spirit, purpose and vital interest in scientific research."

This report would be incomplete without another word of sincere appreciation for the interest and guidance of members of the Board of Trustees, and for the assistance of the Deans and other administrative officers in the preparation of this account.

HOWARD L. BEVIS,
President

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The Board of Trustees, Ohio State University



Members of the Board of Trustees of The Ohio State University, in session in the Board's room on campus, are shown above with administrative officials of the University. Left to right, are: Jacob B. Taylor, business manager of the University; Warner M. Pomerene, Coshocton; James F. Lincoln, Cleveland; Carlton S. Dargusch, Columbus; Harvey H. Davis, vice president of the University; Howard L. Bevis, president; Charles F. Kettering, Dayton; Donald C. Power, Columbus; Lockwood Thompson, Cleveland; Herbert S. Atkinson, Blacklick, and Carl E. Steeb, secretary of the Board.

The President's Office

Student Relations

IN THE AREA of Student Relations the year 1947-48 may be characterized by steady progress in all departments and by one or two outstanding achievements.

We have realized that the quality of the total educational accomplishment of The Ohio State University depends to a considerable extent upon the ability of our guidance of the individual student. While the University, as both a land grant college and a state university, has a mandate for public service and research as well as for instruction in the classroom, the welfare and the progress of the student are the University's most important concern.

Perhaps the outstanding achievement of the year in this area has been the progress in the plans for a new Ohio Union. Last year our students asked for new facilities and agreed to assist in the payment of the cost of a new Ohio Union. A large percentage signed a petition requesting that they be assessed \$5 a quarter for this purpose. The President appointed a committee composed of faculty, students, and alumni to determine what features should be included in the new Union to satisfy the social, recreational, and cultural needs of all the student body. The committee spent weeks in preparation and study, visiting a number of the best student unions in the country, and presented a most comprehensive report to the University Cabinet. The Cabinet and the architects considered the report excellent. The success achieved in the formulation of the plans for the new Ohio Union has been due in no small part to the splendid cooperation and direction of the Business Manager of the University and the Director of the Ohio Union.

Following are brief reports of most of

the departments, coordinated by the Vice President in Charge of Student Relations. The report of the Registrar and University Examiner appears separately.

Veterans' Center

The Veterans' Center has continued to function in an increasingly efficient manner—in issuing authorization of fees, books, and equipment, in preparing and submitting to the Veterans Administration all necessary forms, and in being of general service to the large veteran group. Autumn Quarter 1947 the peak enrollment of veterans under Public Laws 346 and 16 was reached—14,473. During the year, 2,220 veterans enrolled under these two bills received degrees, 2,001 under Public Law 346, and 219 under Public Law 16.

A study was made of the remaining eligibility of the veterans enrolled in the University under the G. I. Bill in the Spring Quarter. As of June 11, 1948, the end of the Spring Quarter, only 1,213 veterans had less than 12 months remaining eligibility; 4,652, from 12 months to 24 months, and 3,733, more than 24 months remaining.

Office of the Dean of Men

Outstanding among the events of the year just passed were the completion of the Stadium Dormitories and the River Road Housing Project. At no time were single students unable to secure accommodations, though many married couples were unable to find suitable quarters. The latter situation will be relieved somewhat by the opening of 200



DR. BLAND L. STRADLEY, vice president in charge of student activities, points to the location facing on N. High St. of the proposed new Ohio Union building. Looking on are two student members of the Ohio Union Building Advisory Committee—Walker B. Lowman, president of the Senior Class, and Elaine Thomas, president of Women's Self Government Association. At the right is Frederick Stecker, manager of the Ohio Union and secretary of the advisory committee. Dr. Stradley served as committee chairman.

additional River Road apartments in July.

Student activities are again in full swing. We have had 3,427 members of social fraternities plus 610 in professional groups this year. The Council of Men's Organizations has become more firmly established. The Student Senate joined the National Students' Association and has had a busy and productive year. Civitas, the organization for rooming-house men, expanded its program and will be the object of special attention

from the office during the ensuing year.

The Social Board has worked toward a balanced social program for the campus.

Office of Dean of Women

It has been possible to have a more satisfactory program for women students during the past year than in the last several years. With the enrollment of women somewhat lower, we have been able to anticipate the housing needs and

more adequately meet them. A larger percentage of out-of-town women were housed in University operated halls than ever before.

Believing that the residence halls have a definite contribution to make to the all-around education of women students, the residence hall program was emphasized. In the fall, 93 student assistants were counselors to freshmen in the halls. A new program recognizing high scholarship was promoted.

During the year, six graduate students, interested in the personnel field, worked in projects under the supervision of this office.

Two institutes for head residents at Ohio State and other Ohio colleges were held. In addition, regular meetings were held for head residents in our living units.

A three-day Vocational Information Conference was held in February. Outstanding speakers were brought to the campus and individual conferences with students were arranged.

Two movies, "Let's Give a Tea" and "How Do You Do," were purchased and made available to student groups.

Staff members continued to work with Pleiades, Women's Panhellenic Association, University Dames, Women's Self Government Association, Red Cross, Pomerene Activities, Mothers' Association, Student Senate, Social Board, and many other organizations.

Occupational Service

This fiscal year has resulted in an improved organization of the Occupational Opportunities Service as well as expanded services to the University and other agencies in the State of Ohio.

A total of 3,682 individuals received complete vocational counseling during the year, including 2,542 veterans. In addition, testing and occupational information services were rendered to many other individuals. Although the great majority of the above were Ohio State

students, many other Ohio residents also received services.

The pre-college counseling program was initiated during the summer of 1947 and about 500 freshmen received counseling before entering the University. This program will be continued annually.

Research projects have been increased in number during the year and included numerous projects on aptitude and placement tests and occupational research. A greatly expanded research program is planned for the coming year.

A test scoring service was established in September, 1947, and a total of approximately 90,000 tests have been scored, including approximately 60,000 tests for departments in the University and other agencies of the State of Ohio.

The Occupational Information Library continues to enjoy constant usage by University students and many others in their search for information concerning occupations.

Student Aids Office

During the year 1947-48 the reorganization of the Student Financial Aids Office was carried forward. This reorganization was primarily for purposes of administration and coordination, and was set up so that financial aids counseling would be one of the chief functions of the office. The financial aids available to all students include: loans, scholarships, and employment.

Reporting on the volume of work for the current year—(1) The Reception Unit for the three combined fields reports 150 daily contacts during the four peak periods of the year (100 per day average). (2) The Employment Unit reports peak periods of 164 persons interviewed daily (average 120 per day). (3) The Loan Unit reports peak periods of 50 persons daily (average 30 per day). Loans made during the year totaled \$54,097.50. (4) The Scholarship Unit reports that during the past year hun-

dreds of persons were considered for scholarships. Approximately 175 undergraduate awards were made. In order to alleviate the critical shortage of elementary school teachers now existing in Ohio and predicted to continue for a number of years, the University Board of Trustees has approved the offering of 88 four-year scholarships effective September, 1948. One of these scholarships will be available to a qualified high school graduate from each county in Ohio who will follow the four-year curriculum for elementary school teachers. In addition to the scholarships, the University Administration has agreed to provide opportunities and other means of reducing the cost of education for the holders of these 88 scholarships.

During the past year, considerable time has been given to a study of policies of other universities, particularly the University of Minnesota and Northwestern University. This was done with a view toward better administration in all three phases of the work.

It is a part of future planning to have labor market reporting and a coordinating file which will include a permanent record card, recording all of the loans, employment, and scholarships held by each student.

University Health Service

The year has seen a continuation of a huge volume of high type health guidance, service, education, and public health protection through all-university cooperation in which the Health Service has played a leading part. The University Health Council was reactivated with constructive results. The following statistics may be noted:

- 36,259 services furnished at the dispensary (154 daily visits)
- 46 emergency services given employee and faculty members

- 5,344 laboratory services
- 514 students referred to downtown specialists
- 3,260 specialist services given in Baker Hall
- 972 X-rays taken by the hospital at Health Service expense
- 1,350 X-rays taken in Baker Hall
- 1,374 instances of infirmary level nursing furnished women in campus dormitories
- 478 bed patients received by University Hospital, averaging 4.82 days for a total of 2,303 hospital days under Health Service hospital benefit
- 348 students treated in hospital emergency room out of Health Service hours at University expense.

A well known psychiatrist has been added to our mental hygiene staff. All degrees of mental disturbance among students are guided. Opportunities for preventive medicine in this field appear unlimited.

Physical examinations other than entrance have been given 1,644 students. Of these, 963 have been the pre-junior standing examination given in cooperation with the College of Education to their students to protect the health of Ohio school children and to promote personal and school health education.

Cooperation with special health education and research projects continues.

Marked progress in extended food handlers' examination and education has been made in cooperation with the City Health Commissioner. In addition to health examination of on-campus food handling employees, examination of fraternity and sorority food handling employees has been accomplished this spring. The Health Service acts as representative of the local Board of Health in issuing official food handlers' licenses (required by law during the last year) to University employees in this field.

The President's Office

Instruction

THE REPORT of the Council on Instruction for the year 1947-1948, like the reports of previous years, is based on continued operation of the Council under the statement for 1941-1942 in which the functions, practices, and policies of the Council were stated in full detail and to which wide circulation was given.

The regular procedures for the submission of materials from departments through college secretaries or curriculum committees to the Council on Instruction have been continued and appear to be sound. There has been great difficulty during the past year in securing bulletin material upon the dates which had been set. This is understandable in view of the many changes necessitated by post-war readjustments. The delay, however, has made serious problems for the University Editor since the Registrar's Office and the postal regulations each require printed material as of certain dates. It is reasonable to suppose that the adjustments now have been largely worked out and that departments may be expected to submit materials more promptly next year.

Degrees and Departments

The Council on Instruction recommended to the Faculty Council the creation of a new Department of Welding Engineering, together with a new degree, Bachelor of Welding Engineering, and a Department of Preventive Medicine (Public Health, Nutrition, Industrial Hygiene).

In considering requests for new departments and new degrees, the Council has continued to apply the criteria worked out in collaboration with the Faculty Council. In applying these criteria care has been taken to insure that a real need from the educational stand-

point exists. The Council is somewhat concerned over the number of degrees already granted by the University in certain areas and has suggested the desirability of reducing rather than increasing this number.

New Curricula

In attempting to modify the educational program in the light of post-war conditions, several departments have suggested the creation of new curricula. Many of these have been approved by the Council on Instruction during the past year. Representative of this work are curricula in Industrial Management, Radio Journalism, Applied Entomology, and Economic Geography.

The College of Veterinary Medicine has modified its curricula both in the pre-veterinary and in the veterinary fields. The pre-veterinary program has now been extended to two years and may be taken either in the College of Agriculture or the College of Arts and Sciences as best suits the students' other interests.

In considering these new curricula, the Council has continued to insist upon a balance between the three types of courses common to all curricula. They are professional courses, technical electives, and broadening electives. The Council believes it to be important that a proper balance be maintained to the end that graduates of any curriculum in the University will be prepared to deal with problems of public affairs and be reasonably well informed in fields other than their specialties.

New Courses

A very large number of new courses received attention from the Council dur-

ing the year. After careful examination, most of them were approved as submitted, or with suggested amendments. In general, the departments have been careful in preparing materials and have had sound reasons for proposing new courses, or amendments to existing ones. There were, however, some instances where the Council believed that new courses were proposed without thorough reexamination of the existing offerings of the department concerned. The Council earnestly requests that care be taken to adjust existing offerings at the same time new courses are proposed. There is also some evidence that departments do not always consider as carefully as they might the importance of cross fertilization between various areas on the campus. For example, it is highly important that the historical or philosophical backgrounds of a given topic be considered in developing that topic, even though it be in areas other than history or philosophy.

Broadening Courses

There has been an encouraging tendency on the part of several departments to develop broadening courses designed for nonmajors. The social science sequence and the history sequence in the College of Arts and Sciences are outstanding illustrations of this movement. It indicates that departments are increasingly aware of their dual function of developing specialists on the one hand, and on the other of offering to nonmajors insight to the approach, philosophy, and methodology of the area.

In the matter of such courses, the Council wishes to direct the attention of the Faculty Council to the importance of appropriate teaching procedures. Putting a course in the catalogue for service purposes to non-specialists in a given area is only the first step. It is necessary that the proper teacher be selected and that appropriate methods be utilized in teaching these courses. Since the students are not specialists in the field indi-

cated, they will in general not respond well to the teaching procedures which may be suitable for majors. These courses are in no sense to be regarded as hurdles but are, on the contrary, opportunities for broad educational experience.

Remedial Courses

The Council has given considerable attention during the year to the matter of remedial or other non-credit courses. In general, it has come to the conclusion that credit should be given for all work, but that in the case of remedial courses the credit will not count toward meeting the requirements for the granting of degrees.

The Council views with alarm the large number of remedial courses which seem to be necessary in many areas of the University. This alarm is occasioned not only by the extent to which the University's resources are devoted to sub-college courses, but also by the waste of the student's time in taking work which he should have had before entering the University.

The Council recommends that further use be made of evaluation and aptitude measures during Freshman Week to discover with students their capabilities of doing work in particular subjects, rather than waiting until the student has either failed or made a very low grade in them.

The Council would also like to suggest that the program of information to secondary schools concerning problems which their graduates meet in qualifying for particular curricula be extended. By this means it should be possible to aid the high schools in their counseling work and in their use of such tests as those produced by the Carnegie Foundation, to the end that fewer students may find it necessary to take remedial courses.

Finally, the Council suggests that the proper agencies undertake a University-wide survey to determine the results of remedial work.

The University Cabinet in Session



MEMBERS OF THE UNIVERSITY CABINET in session in the office of Business Manager Jacob B. Taylor are shown above. Seated clockwise around the table are: Ray M. Royer, University Purchasing Agent; Howard Dwight Smith, University Architect; Paul H. Elleman, Director of Physical Plant; President Bevis, and Business Manager Taylor.

The Registrar and Entrance Board

THE YEAR 1947-1948 was the second peak year for admissions and enrollment in Ohio State University. During the year, 8,594 new students were admitted into the University. During this year, 31,155 different students were enrolled in the various classes of the University. The University conferred 4,536 degrees and certificates during the year.

During the year 1946-1947, the University reached its all time peak in the enrollment at the University with 31,596 different students enrolled. The number enrolled during the past year has then been a little more than 400 less than the

number a year ago. The continued large enrollment necessitated the maintenance of a large number of employees in the offices of the Registrar, Entrance Board, and the University Editor. During the year, 195,500 University bulletins were printed. These bulletins, under 25 titles, represented every phase of instruction in the University.

A more complete program of service to the various departments and the administration of the University was undertaken this year. In order that there might be available a better picture of the trend of enrollment, a tabulation was

made of the enrollment in every course in every department of the University for the four quarters of the years 1939-40, 1940-41, 1945-46, 1946-47, and 1947-48. This information was then made available to each department of the University, to each college office, and to the administrative offices concerned with budget planning and general University planning.

At the request of the Faculty Council, a study of marks given during the year has been made by the Office of the Registrar. Distribution of marks and grade point averages have been computed for every course in the University. This in-

formation was likewise sent to each department and college concerned. Several studies have also been made concerning the academic success of veterans at the University, and much time has been spent in trying to improve the criteria which has been used in selecting students for the professional and graduate schools.

Specific information concerning the admission of students and their registration and classification in the University, and the degrees conferred may be found in the Annual Report of the Registrar and University Examiner for the year 1947-1948.



The Ohio State University Campus -- 1948



The Colleges

Agriculture

CHANGES in administration and plans for developing a new college on the University Farm accent the report of the College of Agriculture for the past year.

Dean Leo L. Rummell came to the college September 1. Formerly he had been a University trustee and had been associated with private business, primarily in public relations. A new position, that of associate dean, was created, with the then junior dean, Chester S. Hutchison, promoted to assume responsibility for resident instruction. Wilbur B. Wood, a former county agent, was asked to become junior dean. John D. Bragg, chief agriculturist for the Department of Public Welfare, became administrative secretary. These persons with the Director of the Extension Service and the Director of the School of Home Economics comprise the Executive Council of the college.

New chairmen were named by this administration in six departments, namely, agricultural chemistry, agricultural education, agronomy, dairy husbandry, horticulture, and zoology and entomology.

The Board of Trustees of the University and Board of Control of the Ohio Agricultural Experiment Station decided to merge the administration of these institutions. Consequently, Dean Rummell also became director of the Experiment Station on January 1, with Mr. Bragg administrative secretary for both institutions.

For several years the program of work had been correlated in varying degrees between respective departments at the College and Station, with a common chairmanship. During the past year this coordination was completed with merger of the Entomology Department at Wooster and the Department of Zoology and

Entomology at the college, with Dr. D. F. Miller chairman, while the Department of Botany and Plant Pathology was welded with the Department of Botany at the college, and the name was changed to Botany and Plant Pathology, with Dr. B. S. Meyer chairman. The Department of Agricultural Chemistry was changed in name to Agricultural Bio-chemistry, with Dr. T. S. Sutton chairman. Poultry Husbandry Departments were combined under E. L. Dakan chairman.

Thus today the program of research, resident instruction and extension in agriculture and home economics is correlated under one administration. Such a program is common in land-grant colleges. Those in the research field have opportunity for part-time teaching; instructors have avenue for scientific publication; graduate students can avail themselves of the facilities of the Agricultural Experiment Station. The experiment station becomes another unit now in the Inter-University Council for determining policy in education in state institutions of higher learning and in presenting needs to the General Assembly.

Enrollment in the College of Agriculture reached a new peak in the Autumn Quarter with 2,260 men and women in agriculture, and 600 in home economics. There were 56 girls majoring in agriculture, principally in animal husbandry or floriculture. This enrollment marks the Ohio College of Agriculture as first in the United States, although in agriculture alone (exclusive of home economics) the enrollment is second. While veterans comprise a high percentage of the undergraduate body, still enrollment did not show a marked decline of freshmen in the year as in some other colleges. Unusually high economic level has encouraged far more

farm families to give their children, both boys and girls, advantage of college education.

Curricula offered by the College of Agriculture are designed to train students for employment in all fields of agriculture and related areas. Since the production of farm products is the backbone of the agricultural industry, the greatest emphasis is placed in this area. Curricula have been changed and modified to provide a well-defined technical training and a broad knowledge of the social implications as well.

Since agriculture is an exact science, the successful farmer needs a thorough grounding in the sciences. Today a person does not consider becoming a farmer without thorough preparation for the vocation.

Such curricula as Food Technology, Animal Science, Plant Science, Applied Entomology, Conservation, Dairy Technology, and Pre-Veterinary are all playing an important part in the training of students for employment in teaching, industry, and research in agriculture and related subjects.

The increased interest in securing a training in agriculture has resulted in the largest enrollment of men and women in the history of the college. Students from all 88 counties, from 27 other states and foreign countries have created a problem that taxes both facilities and instruction.

Growth of the University as a whole has forced consideration of a new campus for the College of Agriculture. While the main campus comprises about 400 acres, the University Farm west of the Olentangy River embraces about 1,000 acres. Already three large departments—animal husbandry, dairy husbandry, and poultry—are located on the farm. Here is a strong nucleus with these departments that together represent about 75% of the farm income of Ohio.

A 25-year building program for the College of Agriculture was developed in

the year by the University administration in cooperation with all departments. Hale Walker presented architectural plans for development of an Agricultural Center, a new campus west of the Olentangy. This program has been presented by the University administration to the Board of Trustees. Here would be moved eventually departments with possible exceptions of Botany and Plant Pathology, Zoology and Entomology and the School of Home Economics. An addition is now under construction for the Botany and Zoology Building, and plans have been developed to expand the facilities of the School of Home Economics.

The Agricultural Laboratories Building to house Dairy Technology and Agricultural Bio-chemistry will be the first new building in developing further the University Farm campus. The site for this \$960,000 structure was selected and plans for the building, first provided by the Legislature in 1941, are now being revised with a view to construction starting in the fall of 1948.

Student relationships have been improved during the year. Closer counseling is now possible with both an associate dean and junior dean. Students are encouraged to counsel with all deans. A committee of student representatives met frequently at the deans' office for frank discussion of student-faculty relations. A placement service with complete personnel file of graduating students was established.

All farm management was consolidated under supervision of R. L. Bazler, and all farm rotary accounts were merged into one fund with advice of the University Business Office and approved by the Board of Trustees. Excellent cooperation has prevailed throughout the year between college administration and the Business Office in accounting, purchasing, and personnel, as well as with the maintenance division, which has made notable improvements in Townshend Hall and else-



OHIO STATE UNIVERSITY
 PROPOSED PLAN FOR THE COLLEGE OF AGRICULTURE
 OFFICE OF THE UNIVERSITY ARCHITECT

where. The Salzgeber property on Lane Avenue, consisting of eight acres, brick house and other buildings, was acquired, and plans are being made to house the Federal Legume Seed Laboratory there.

Twelve meetings of the Executive Committee were held in the nine months of the year in planning programs for the college.

A student chapter of Flying Farmers, with 60 members, was started, the first of its kind in a land-grant college. The junior dean served as secretary to the state organization of Flying Farmers, and was instrumental in bringing the national convention to Ohio.

The dean ex-officio is a legal member and acts as chairman of the State Soil Conservation Committee. Meetings were held at intervals to transact all business of the 66 soil conservation districts.

* * *

Arts and Science

THE YEAR 1947-1948 was, on the whole, a little less strenuous for the College of Arts and Sciences than the preceding year. Our reasonably good fortune in securing able teachers and scholars for the staff, in spite of the generally acute shortage, had placed us in a favorable position. The relatively small entering class eased the stress in the elementary courses. The administrative problems attending upon the preceding years of rapidly mounting enrollments were pretty well settled, and we could operate in a somewhat more stable atmosphere. Thankful though we are for this improved situation, we have not succumbed to the illusion that we have attained normal efficiency. We warn ourselves against accepting fair success in the emergency as a new level of operation. We try to avoid the first of the deadly sins while pointing with some satisfaction to the results of the year's work, and maturing plans for the year to come.

Under the leadership of Junior Dean

Hearings were duly held and approval was given to creation of new districts in Sandusky, Hardin, and Crawford Counties. Junior Dean Wood acts as secretary of the committee.

Public relations of the college reach into every nook of the state. The dean has been called for addresses before nearly all leading farm groups of the state, as well as local farm and civic organizations. Others of administrative and teaching staff likewise appear publicly in addresses or demonstrations. Many conventions are held on the campus, notably Farm and Home Week and "Open House" of the School of Home Economics. The University's Agricultural Extension Service reaches every county with services available to young and old alike in farming and home and community life.

William S. Guthrie, the college program for receiving new students, making them feel at home, getting them to understand the spirit of the University, the reason for its requirements, and the rich opportunities which it has to offer, functioned with success. The University is big and the College is large, but the bigness is still people and these people are all interested in each other. People do not get lost here unless they try hard to lose themselves. Dean Guthrie's course for new students, the friendly service of the counselling staff, and the individual conferences with members of the faculty have personalized the relationships of the students with their University. We have had visitors from various parts of the nation who have wanted to see the workings of this part of our program. Jack Fullen's fine "In the Family" editorial in the June *Ohio State University Monthly* is documented by our experience in the College.

As the bulge of new students receded, we returned to normal the few out-sized

classes which had been set up in the first quarters of the emergency. We were able, likewise, to reduce the number of temporary instructors who had been called upon to help with the overly-expanded elementary sections. The College acknowledges with warm gratitude the fine services of these teachers, many of whom gave up their leisure in order to help out. On the whole, the quality of this instruction was high.

The stress, however, though eased, did not disappear; much of it only moved on into the senior college years. The upperclass courses were crowded. These require our best, most highly trained teachers. Many of our best men had willingly taught in the elementary areas during the quarters of heaviest pressure. This year they tended to concentrate again in their advanced specialties. Some were overloaded. But again the number and the high quality of the new members of the staff enabled us to meet the need satisfactorily except in a few departments where it is still not possible to get men of the stature which our program requires. The situation is better now than it was last year, and during the first six months of 1948 we placed under contract a gratifying number of superior men for the coming year. The policy of making temporary appointments wherever first-rate people were not available is now bringing its rewards. Every department in the College now has a substantial core of outstanding men in teaching and research who are eager to advance the total program of the College. The College expresses its appreciation to the President's office for its constant encouragement, cooperation, and counsel in all these efforts.

Several thousand words would be needed to present in detail the operation of the College for the year 1947-1948. Some of the achievements merit special comment. The cooperation of the departments within the College, and of other colleges with the College of Arts and Sciences, has been close and sym-

pathetic. We have worked with the colleges of Medicine, Dentistry, Veterinary Medicine, Pharmacy, and Law in designing programs of study which would coordinate our mutual interests for the welfare of students looking toward these colleges for ultimate professional training. The heavy demands upon these colleges make it necessary for them to select rigidly from among the best candidates. They share our desire to give the students the best possible education, and to point the way toward alternate though related professional goals in the event that they fail to be admitted to the professional college.

The faculty of the College has kept to its high standard of scholarly productivity. One or two departments have made spectacular contributions and have enjoyed national attention for their work. The individual achievements have been recorded month by month in the *Faculty Review* and need not be itemized here. A year's work by the diversified faculty of this College adds up to an impressive total. It also demonstrates again the exceedingly close relationship which exists and is constantly cultivated between the College of Arts and Sciences and the Graduate School.

In addition to this scholarly accomplishment, the faculty has served both the state and the nation rather generously by holding conferences and discussions, and by lectures before groups of all sorts and interests. Activities and services of this nature have become so much a part of our university life that we tend to take them for granted. They are one of the important channels through which the constructive influence of the College flows out to its wide constituency.

The major efforts of the College in the past year have gone quietly into the happy task of enlarging the minds and enriching the understanding of the youth of this state and selected representatives from all parts of the world. In hundreds of classrooms and laboratories



WILLIAM OXLEY THOMPSON LIBRARY as it will look when the proposed eight-story tower and additional reading room areas are completed.

throughout the campus from early morning until late at night faculty and students have been meeting to think about, to weigh and consider, the areas of learning of central concern to men of today. This is the vital process of education even though it does not supply exciting copy for an annual report. But the fact that this function is performed and performed well makes it possible to build on a solid foundation important refinements for a superior program.

A few of the newer activities deserve comment. In the summer of 1947 the University opened its new Geology Field Station at Ephraim, Utah. This site was selected by Dr. Edmund Spieker after diligent survey of possible locations. Thanks to the generous cooperation of Snow College, facilities were made available for immediate use by our students. Dr. Spieker and staff accepted 31 students from among the many who wished to do summer field work in geology. The results were heartening. This ac-

tivity rounds out the necessary laboratory work for the students of this University in one of the important basic sciences.

The rapid growth of research activities on the campus requiring in their work the aid of statistical mathematics led us last year to set up a Statistical Laboratory in the Department of Mathematics. It is under the general supervision of Professor Mann, who offers graduate training in this field. It provides students specializing in applied mathematics with practical experience at the same time that it supplies the pressing needs of other departments, particularly in biology, where certain aspects of their research is involved in formidable statistical calculations. At the conclusion of its first year of operation, the Statistical Laboratory has been declared a decided success. Plans are being formulated for the continuation and development of this project.

The Speech Correction and Hearing

Clinic has made a notable development in the past year. It has enjoyed the closest cooperation and support of the many agencies both on and off the campus which have vital interest in this work. The curriculum has been redesigned and better facilities have been provided. This division of the Department of Speech has already received wide recognition and is making its leadership felt in this area which the casualties of the war have helped to dramatize.

The division of Drama and the Theatre has won the grateful recognition and support of the entire University community by its presentation, with high professional distinction, of two outstanding productions each quarter.

This was the first year of the operation of the New Program of Studies leading to the A.B. Degree. The results, in so far as they may be appraised at this point, are gratifying. Special committees were at work during the year to plan the courses for the second year in the field of the social sciences. These will be introduced at the beginning of the next academic year.

Death removed four of our major professors in mid-career: Professor Wesley George France of the Department of Chemistry, Professor Alva Wellington

Smith of the Department of Physics, Professor William S. Hendrix, Chairman of the Department of Romance Languages, and Professor George Adrian Washburne, Chairman of the Department of History. Such losses are blows heavy to bear. They stood high in their professional fields and they were eminent teachers. The College misses them keenly and will continue to miss them.

The rapid growth of the faculty has added pressure to the already critical shortage of desk and office space, particularly in University Hall, Derby Hall, and Orton Hall. Projected remodeling, if it can be carried out, will afford some relief until the over-all University building program can encompass these needs. There is general rejoicing over the matured plans for the addition to the Library. The new facilities which this will provide will alleviate some of the distress at present experienced by our scholars who do not have space in which to work either in their departmental offices or at the Library.

On the whole, the College closes the year 1947-1948 feeling that it has made substantial progress, and that it enters the new year in more favorable circumstances in every respect than last year, and with high hopes for the opportunities that lie immediately ahead.

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Commerce and Administration

THE College reached an all time peak in student enrollment in the school year, 1947-1948. In the Autumn Quarter, 1947, there were 5,813 students in the College as compared with 5,133 in the preceding Autumn Quarter. These heavy enrollments continued into the following Winter and Spring Quarters. Quarter by Quarter, the number of degrees granted has exceeded all previous records. In the four Quarters ending in June, 1948, the College conferred 840 degrees. Graduation classes will continue to be quite large in the quarters

immediately ahead.

It is very gratifying to report that business and social work agencies have offered excellent employment opportunities to our graduates.

Conferences with the architects in the planning of the addition to Hagerty Hall was a major activity of the year. In this work the College Committee received noteworthy assistance and cooperation from the architects, the University Architect, Howard Dwight Smith and from the University Cabinet.

The plans for the addition are now

complete and it is hoped that construction will begin in the autumn of 1948. The complete structure will be a quadrangle and the addition will practically double the present floor space.

Various areas in the College, particularly the Departments of Accounting and Business Organization and the School of Social Administration, continued to sponsor and to assist in the development of a very substantial conference program for service to Ohio industry and the professions. These programs brought approximately 3000 business and professional men to the campus for meetings extending over one or more days. It is our plan to continue and to expand these programs. Some of these conferences may be extended into longer institutes or short courses for business and professional groups. The opportunities for service in this connection are very great. Our conference program may well be expected to grow in magnitude and

importance as an important item in the ever growing field of adult education.

Department of Accounting. The staff of this Department continued throughout this year to make significant contribution to the profession of Accountancy. Honors to the staff and services to the profession were evidenced by Professor W. E. Dickerson's election to the secretary-treasurership of the Grand Council of Beta Alpha Psi. Professor Dickerson also served as a Director of the Ohio Society of Certified Public Accountants. Professor W. B. Jencks served as Editor of the Ohio Certified Public Accountants. Professor Hermann C. Miller served on the Executive Committee of the American Accounting Association.

Professor R. S. Willcox was chosen as a National Director of the National Association of Cost Accountants.

The addition to the staff of Assistant Professor Horace W. Domigan led to the further development of the work in

Sketch of Hagerty Hall Addition



the field of Tax Accounting. Another significant appointment was that of Assistant Professor Samuel R. Hepworth.

Bureau of Business Research. During the year ending June 30, 1948, the Bureau of Business Research performed the following continuing functions:

1. Collecting, interpreting and publishing data on Ohio business and economic conditions.
2. Conducting special studies of interest to Ohio business and trade groups.
3. Rendering a general economic information service to Ohio business trade associations, government units and business firms, with especial attention to the needs of smaller businesses.
4. Providing facilities for conduct of graduate and faculty research in Commerce fields.
5. Serving the College Departments in organization and promoting business conference, and in publishing Commerce Conference Proceedings.
6. Serving the College in preparation of public relations and promotional materials.

In the course of executing the tasks attendant to this variety of functions, the Bureau published five new books or monographs, one Special Paper, and reprints of two previously published books; prepared six new books or monographs for press; assisted in the conduct of ten College of Commerce Conferences and edited and published proceedings for each; prepared and published two College promotion booklets and several leaflets; and prepared and published twelve issues of the monthly Bulletin of Business Research, and of each of two other monthly releases.

Principal new developments in the Bureau included appointment of Mr. Alton W. Baker to conduct research in the field of Personnel Management and Labor Relations. The Bureau is now preparing plans for a new monthly pub-

lication to be known as *The Ohio Retail Annalist* to serve Ohio Retailers. This publication will be under the direction of Associate Professor James C. Yocum.

Department of Business Organization. The year witnessed the publication of major books by members of the staff. Professor E. F. Donaldson published a book on Personal Finance, Professor H. E. Hoagland revised his Corporation Finance, which was published as the Third Edition. Professor M. J. Jucius completed work on his book on Personnel Management. Assistant Professor James H. Davis published *Increasing Wholesale Drug Salesmen's Effectiveness*.

The year was marked by the retirement of Professor Montgomery E. Pike, long senior professor in the field of Business Law. New appointments included those of Assistant Professor James A. Healey in the field of Industrial Management and of Assistant Professor David W. Bussell in the field of Marketing. Plans have been maturing throughout the year for the further development of graduate work in the fields served by the Department. Immediate attention will be given to the development of facilities for training in the field of Market Research on both the undergraduate and graduate levels.

Department of Economics. The Department's principal task in 1947-48 was the providing of instruction for the greatly increased number of students, many of them veterans. Other activities were temporarily submerged to give way to this principal objective. In the Autumn Quarter (1947) there were 6,335 registrations in the Department of Economics, which was the largest number for any department on the Ohio State University campus. No department in the university showed such a large increase from pre-war enrollments. This increase in student enrollments was disproportionate to the increase in the size of the teaching staff. As a result there was a great concentration by the staff on the problems incident to an exceedingly

heavy student load. In spite of this circumstance, however, members of the staff continued to make contributions to the literature of their fields and to assume substantial professional and community responsibilities. During the year the Department participated further in the development of the new Arts College Curriculum and, in conjunction with the Departments of Sociology and Political Science, assisted in working out the Social Science program for the sophomore year of the curriculum.

The research efforts of the faculty were assisted and strengthened by grants from the Research Foundation.

It is our confident expectation that the restoration of a happier student-teacher ratio will witness considerable scholastic contribution from the group of younger scholars which has been developed in the Department in the past few years.

Department of Geography. Among the more significant educational developments of the year was the creation of a curriculum in Economic Geography, designed to prepare students for positions as geographers, particularly with governmental agencies. The new graduate courses, approved last year, have proved useful to the Department in providing instruction for graduate students, especially those who are candidates for the doctorate.

During the year the Department continued to secure large numbers of maps from the Army Map Service. There were also received a number of maps prepared by the Map Division of the Office of Strategic Services.

Principal publications by members of the staff include Associate Professor A. J. Wright's book, *United States and Canada, An Economic Geography*. Professor Roderick Peattie has continued as editor of the *American Mountain Series*. Two books were published this year under his editorial supervision. While the Department has long had important service teaching responsibilities, it is

planned to devote increasing attention to the further development of its graduate program, designed to make this a significant center for the training of professional geographers.

School of Social Administration. The School of Social Administration experienced a number of major personnel changes in this year. Professor C. C. Stillman, who gave distinguished direction to the School for many years retired at the end of the year. The year also saw Professor Robert G. Patterson retire after a long tour of outstanding service in the development of the School.

Professor C. F. McNeil was appointed to succeed Professor Stillman as Professor and Director. Professor McNeil, a graduate of the School, came to his new responsibilities after a most successful career in the field of Social Administration. Other important personnel additions resulted from the appointment of Miss Helen O. Rice and Mr. H. Farrand Livingston as Associate Professors in the School. Research activities in the School were furthered by the appointment of Professor W. C. Reckless as Chairman of the Bureau of Research and Planning of the American Prison Association. This appointment will make the School a center of important research in the field of Criminology and Penology.

Future plans for the School include the development of a Medical Social Work Curriculum, the creation of a Curriculum in Public Welfare on the graduate level and provision for the training of school social workers. Climaxing a year of great changes in the School was the conferring upon Professor C. C. Stillman of the LL.D. degree in recognition of his great contribution to the field of social work.

Department of Sociology. Major staff changes for the year included the appointment of Dr. Raymond F. Sletto to a professorship. His special assignment in the Department will be the development of a research program and of a

graduate training program in the methodology of Social Research.

Book publications and other scholarly contributions of the staff reached an all time high in this year. Principal book publications were Professor John F. Cuber's *Marriage Counseling Practice and Problems in American Society*. The quality of the work and the keen interest of the staff in research and writ-

ing forecast a rapidly growing scholastic standing for the Department.

Plans for future development include the creation of a Bureau of Social Research designed to stimulate and to aid in the development of both individual and group research programs. Further plans also include the expansion of work on the graduate level, especially in Methodology and Family Problems.

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Dentistry

THE College of Dentistry has expanded its facilities to the utmost to take care of the greatly increased enrollment of the post-war demand.

During the period from 1930 to 1940, the College graduated on the average of 50 students a year. This average has remained about the same during the war years, but because of the accelerated program, four classes were graduated in a three-year period. In this 10-year period (1930-1940), the College enrolled 60 students a year in the freshman class. In order to fill these classes, even though the minimum scholastic requirement was a "C" average, they had to accept from 25 to 30% of out-of-state students.

Due to the combined activities of the University, the College of Dentistry, and the Ohio State Dental Society this condition is now entirely changed. Dentist-Boy banquets have been held in all the major cities of Ohio, and in one year alone more than 6,000 high school seniors were gathered together and given information regarding the opportunities and the need for more and better dentists.

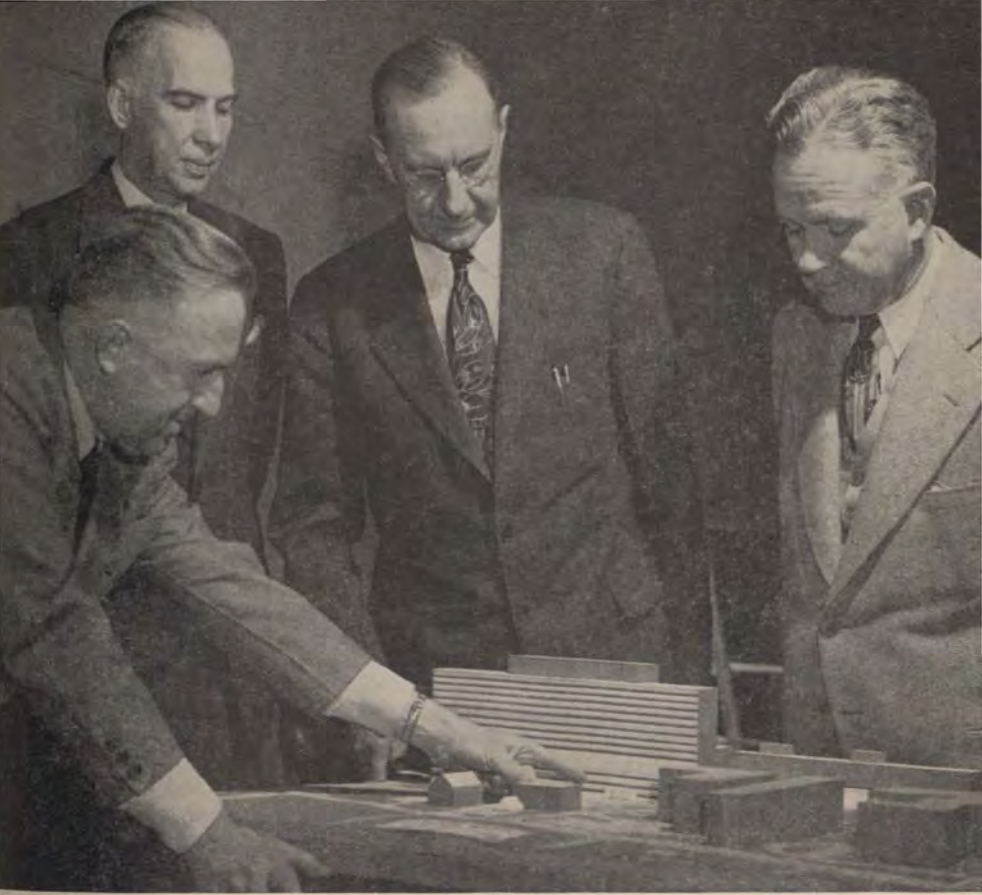
In the Autumn Quarter of 1947, there were 80 freshmen enrolled, all were from Ohio, and they had an average grade of "B." In the fall of 1948, there were over 400 qualified applicants for admission to the College of Dentistry from Ohio. Out of this group, 84 were selected for the freshman class of 1948 and all have excellent grades. Only

seven of this group are non-veterans. Because of the great need for dentists and the opportunities offered by the profession, it is the opinion of Dean Postle that this demand will continue. In 1949, the College will have 322 dental students enrolled and will graduate about 75 students per year. With the better selection of students, very few of those accepted will be eliminated.

In addition to the regular four-year program for the training of dentists, the College has instigated training programs for two auxiliary groups: a curriculum in Dental Hygiene which is open to women, and a curriculum in Dental Technology, open to men. Both of these courses are two years in length and lead to graduate certificates rather than degrees.

The average enrollment in the College of Dentistry for this past year was 300 students. This included an average of 266 dental students, 56 dental hygienists, and 16 dental technicians. From now on, the College will be graduating 50% more dentists and in addition, training dental hygienists and technicians to help the dentists care for more people.

During the year, the College of Dentistry received from the Kellogg Foundation a gift of \$24,000. Of this sum, \$12,000 was for the continuance of the postgraduate education in the College of Dentistry, and \$12,000 for aid in the establishment of a course for technicians.



AN ARCHITECT'S MODEL of the new Medical Health Center is inspected by, left to right, Dr. C. A. Doan (pointing), Dean of the College of Medicine; Jacob B. Taylor, University Business Manager; President Bevis, and Dr. Wendell D. Postle, Dean of the College of Dentistry.

Postgraduate courses in the specialties of dentistry were started in a small way in 1941. For several years this work was offered during the summer only, but with the aid of a grant from the Kellogg Foundation, it was expanded to a series of one-week courses offered three times during the school year. During this past year, 12 different courses were offered during each of the three quarters with a total registration of 201. In addition to these courses, we offer a special postgraduate course in Orthodontia which is offered two and one-half days a week for six quarters. The five men who started this course in Orthodontia finished their work in March, 1948, and

another class of eight was started in January, 1948.

The Ohio State University is the first university in the country to start a curriculum in Dental Technology. The Dental College inaugurated this program in the fall of 1947 with a limited enrollment of 16 students. This is a two year course open to high school graduates. About one-fourth of this course consists of academic work in the College of Arts and Sciences, and the remainder of technical training in the dental college. At the completion of the two year course, the student is awarded a certificate as a Graduate Dental Laboratory Technician.

The College is carrying on an active program in dental research under the direction of Dr. Paul C. Kitchin. Most of the activities during the past few years have been in the study of the control of dental caries. Several projects on dentifrices have been carried on for the Proctor & Gamble Company.

The personnel of the dental faculty has been improved until now they have recognized leaders in all departments. They are much in demand for dental society meetings and have appeared on programs in all sections of the country. Three of the faculty members have lectured before the Canadian Dental Society, and one appeared on a program in Puerto Rico in January, 1948. Members of the faculty are active in the affairs of the Ohio State Dental Society and of the American Dental Association. Dean Postle is the President of the Ohio State Dental Association. Dr. Hamilton B. G. Robinson is Editor of the *Journal of Dental Research*, President of the Columbus Board of Health, and Secretary of the Columbus Dental Society. Dr.

Paul C. Kitchin is Vice-President of the American College of Dentists and the Secretary of the Research Fellowship Board of this organization. Dr. Earl Jones is President of the American Association of Orthodontists and is Secretary-Treasurer of the Ohio State Dental Society. Dr. Carl Boucher is Secretary of the Full Denture Section of the American Dental Association and is serving as civilian consultant to the Percy Jones General Hospital at Battle Creek, Michigan. Dr. J. Henry Kaiser is Editor of the *Journal on Endodontia*.

Because of the increased enrollment and new activities, the College of Dentistry is very much crowded in its present location; but this will be remedied when the new Health Center is completed. Eight million dollars have been appropriated for this development and the Dental College's share is approximately one and one-half million.

With the new facilities which will be available for dentistry in the new building, a continued improved and expanded program is assured.

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Education

DURING the school year closing June 30, the College of Education served 3,851 undergraduate and 2,183 graduate students. In addition to their teaching duties, members of the faculty engaged in a variety of research and service activities.

The central administrative staff was augmented through two appointments. One staff member was added to serve as Assistant Dean and Coordinator of Research and Service, a newly created office, and the other to serve as Coordinator of Student Field Experience.

The addition of six new members to the permanent teaching staff of the Department of Education has strengthened offerings in the fields of guidance, business education, mathematics, science, social studies and secondary education. In

cooperation with the State Department of Education, five instructors were added to the area of vocational education at the undergraduate level. Courses were offered for the first time in comparative philosophy of education, the junior college movement, supervision of vocational education, and the organization and teaching of office practice. One committee of the department has studied the program leading to the Master's degree and another committee the program leading to the Doctorate.

The graduate faculty of the Department of Education played an important part in the instructional program of the Graduate School. For the academic year just closed, 25 per cent of the theses completed by all graduate students in the University were directed by Depart-



SCHEDULED FOR COMPLETION in the Spring of 1949 was the new School of Music Building, for which ground was broken late in 1947. An architect's sketch of the proposed four-story building is shown above.

ment of Education faculty members. Ten per cent of all dissertations were directed by this faculty. During the summer quarter, these percentages increased to 38 and 22 per cent respectively.

A new two-year core program in Fine and Applied Arts was developed, which enables all students to explore the broad field of the arts and have a variety of experiences ranging from sculpture to drawing. After completing the core, students may specialize in the several professional areas. New curricula have been developed for these areas.

A major position in social psychology was filled, making possible a series of new courses in this field. Graduate enrollment in the Department of Psychology has been stabilized through a more rigorous screening of applicants for admission. The program in clinical psychology was accredited by the American Psychological Association. A study of the need for specialists in guidance and psychology in the public schools has led to the planning of new Master's de-

gree programs in these areas to be administered jointly by the Departments of Education and Psychology. Further development of the program for the training of school psychologists was achieved through the combined efforts of the Department of Psychology and the Bureau of Special and Adult Education working in cooperation with the State Welfare Department.

In meeting an increased enrollment, five new staff members were added to the faculty of the School of Music. Music composition was added to the offerings in music theory.

A new clinical training field center in occupational therapy was established in cooperation with the Cleveland State Hospital.

A joint curriculum in school health education for students in the Men's and Women's Divisions of Physical Education was inaugurated. Student field experience opportunities in school and community agencies were offered in the Women's Division. Also, full-time stu-

dent teaching was made available to women majoring in physical education. A teacher education curriculum in the dance with an emphasis upon the arts and humanities was developed. A course in health education was added to the requirements for all students planning to teach in secondary schools.

The Committee for the Undergraduate Program studied the teacher-education program of the College. Procedures were improved for selecting students for junior standing and student teaching. Factors of competency for teaching were analyzed further. Plans were made to develop further the program of direct experience for prospective teachers in practical school-community situations. The Student Council cooperated with the committee in making a preliminary evaluation of the present teacher education program. The graduate students in the College of Education responded to a faculty invitation to cooperate with the faculty in investigating problems on graduate study. A survey of graduate student opinions was completed by this group.

In the Department of Psychology further progress was made in aviation research. An investigation was conducted in teaching aids for the Navy. A grant of \$45,000 from the Rockefeller Foundation was obtained for studies in educational leadership by the Personnel Research Board. A cooperative project involving psychology and other university departments was launched for the study of public opinion on political issues.

The Bureau of Special and Adult Education initiated a state-wide study into the factors which prevent children from attending school.

In the Bureau of Educational Research a new formula was developed for testing the reading difficulty of written materials. In cooperation with the School of Fine and Applied Arts a grant of \$22,300 was obtained for continued investigations in the field of visual per-

ception. Techniques for the cooperative planning of public school buildings were explored.

The University School faculty studied means of screen testing children's vision. The results have already influenced vision testing programs of the schools of Ohio and other states. A comparative study of various methods of screen testing the hearing of school children has been completed.

The Committee for the Research and Service Program compiled data concerning the research interests of the faculty with a view to stimulating cooperative research projects and facilitating individual research plans.

There was a marked increase in the number of requests received by the Teaching Aids Laboratory from other University departments for charts, recordings, and other aids. The Survey Division of the Bureau of Educational Research was involved in a long-term program in providing expert assistance to Ohio school districts in the planning of over \$38,000,000 worth of school buildings. Consultation services to school systems in improving instruction were expanded. Over 16,000 printed manuals were distributed to schools by the Ohio School of the Air to guide teachers and pupils in the effective use of school broadcasts.

A major staff position in adult education was filled in the Bureau of Special and Adult Education.

The University School established consultation relationships with fifteen public schools in Ohio in connection with curriculum development programs.

Workshops for public school and other personnel were conducted in sight-saving practices, special education, church and choral music, instrumental music, conservation education, mathematics education, and trades and industries. In cooperation with the National Education Association, the College sponsored the Ninth Annual Conference on Elementary Education.

Several professional books were published by members of the faculty, and a number of articles were contributed to professional magazines.

Special efforts were made to recruit young people to prepare for positions in elementary schools, where the need for teachers is especially acute. Teams of College of Education students spoke in their home high schools on the subject of teaching as a profession. Approximately 250 high school seniors participated in the College of Education day on the campus. A booklet, "Look Into Teaching," was prepared for distribution next fall to all high schools in the state. The Board of Trustees recently made provisions for eighty-eight scholarships to students entering elementary education.

Members of the faculty have been active in numerous professional organizations during the year. Through the Conference of Deans of the five state colleges of education, the College of Education has cooperated with the Ohio Superintendents' Association in the study of the problem of re-districting the State for the purpose of maintaining public educational programs.

The College of Education was repre-

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Engineering

SIGNIFICANT factors in the success of any college are (a) the Faculty, (b) the curricula, (c) the equipment and (d) the alumni. In looking at noteworthy current items of general interest in the above categories, the following have been selected for brief mention; while they are by no means the only items worthy of discussion, they are selected as symptomatic of present progress in the College of Engineering.

The status of departmental faculties is constantly under review and always with the thought of accomplishing that degree of improvement which should be the objective of all academic growth.

sented at the meeting of the American Association of School Administrators in Atlantic City by several faculty members. Materials describing the program of the College and portraying the activities of University School were exhibited during the meeting. The College of Education also sponsored an All Ohio Dinner.

The College of Education participated in the efforts of the Graduate School in studying means of supporting and coordinating social science research throughout the University. Faculty members completed plans to participate in the survey of certain educational institutions destroyed or damaged during World War II in the Philippines.

The faculty is studying its total program of teaching, research, and service. Out of its two years of experience working under its newly created committee organization, the faculty recently completed further refinements of this organization. The major committees will begin the next year with numerous proposals and problems organized for future study. Out of such study will come proposals for improving the total program that will present in turn new staffing problems and new problems of housing and equipment.

When change of residence or retirement rob us of a recognized leader whom the whole campus community has come to respect and admire, we are partly reconciled if a successor can be found who will bring us new competences and fresh viewpoints. When such changes occur, proven policies are continued but at the same time the occasion is utilized for raising our sights to make use of the latest in theory and practice. In appointing new teachers preference is given to candidates who, in addition to meeting the requirements of practical experience and personality, have had work in the graduate area and a superior background

in scientific fundamentals. The College is fortunate in having been able to add new Department Chairmen and other staff members who have a formal post-graduate record or have distinguished themselves with impressive performances in applied research.

The new five-year curricula may now be said to be well set upon its way. Students with good reasons, such as previous enrollment in the four-year curricula here or elsewhere in recognized colleges of engineering, have been permitted to remain in the old four-year curricula. The residue will soon be eliminated and then the entire student body will be on the five-year plan. The trend is for more and more emphasis to be placed upon high standards of student performance in the fundamentals of mathematics, chemistry and physics, with due regard for the necessity of satisfactory performance in English. Improvements in technical subjects have also been incorporated as the result of revisions made when the five-year plan was adopted and a greater number of non-vocational subjects added.

Under the heading of buildings and equipment, it is at last possible to report that a long-time scheme for needed college buildings has been prepared and presented to the University Administration. One immediate result is the preparation of plans looking to the awarding of a contract in 1948 for the new building to house Electrical Engineering. Completion of the unit will free space for easing the congestion in Mechanical and in Aeronautical Engineering. Departments now housed in Brown Hall (Architecture, Civil Engineering, Engineering Drawing and Photography) must have relief from sadly congested areas; Chemical Engineering is in the plan for expansion and this must be done soon.

During the year a second story was built into Robinson Laboratory, thereby expanding the floor space available to Mechanical and Electrical Engineering

by some 15,610 square feet. This additional floor space has been made into classrooms, laboratories and offices. It was made available with the maximum saving in first cost and time (since the floors were placed in a building already existing) and the immediate relief secured thereby was most timely because without it work in the Departments concerned would have had to be curtailed.

During the academic year, Welding Engineering was given Departmental status thus placing it more advantageously with regard to independent development as a separate academic entity.

Through the cooperation of the U. S. Navy, a precision gage laboratory has been set up in the Department of Industrial Engineering. The equipment embraces many thousands of dollars worth of higher precision gage equipment and this is being added to by University purchases. This establishment will enable the use of the gages for instructional purposes and in the event of a national emergency, will constitute a convenient station for the checking of master gages by the armed forces and by industry. The Machine Shop in the Department of Industrial Engineering has been entirely modernized and re-equipped with War Surplus and purchased machine tools. The changes effected are in line with the policy of emphasizing the basic principles of engineering theory which underlie the modern conception of the practice of industrial engineering. While holding to the best in "processing," the dependence upon basic science is stressed.

Through cooperation with the Foundry Industry, a greatly enlarged facility has been furnished; this tremendous interest on the part of the Foundry Industry has been of splendid mutual effect and will stimulate us in our program of research which is already under way in the Engineering Experiment Station.

The University, through arrangement with the State Forestry Department has established at Camp Light a permanent

camp for the use of the Department of Civil Engineering, to serve as a field laboratory for the Summer Surveying courses. Semi-permanent buildings are being improved in a healthy setting with excellent water and close enough to Lake Hope to provide healthy swimming recreation. Thousands of acres of forest land in a rough terrain present an ideal area for reconnaissance work, for classes in topography and sufficient space for worthwhile exercises for students in precise surveying.

A picture aiming to depict the status of the alumni is not possible here because of the magnitude and diffuseness of the subject. It can be stated that the engineering graduates have been in "short supply" and most of our men have received from two or three to a

half dozen or more offers from employers. A Placement Office, with Director, has been set up in the College and this has proved helpful to the graduating classes, the alumni and industry. The outlook for continued demand for several years seems to be favorable. In this respect, the College is keenly aware of the impact of the professional aspects of engineering and the implications of the licensing regulations in the several states. The Engineers Council for Professional Development has established criteria for the accrediting of engineering curricula throughout the country. This has been done without any tendency toward regimentation. Our College has been accredited in its curricula on the same basis as the leading engineering schools of the country.

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Law

WE BEGAN the academic year 1947-48 with 388 students consisting of 164 first-year students, 124 juniors and 100 seniors. The 1946 total was 360. Two factors account, at least in part, for the increase being so small in a period of heavy veteran enrollment in American law schools. In the 1947 autumn quarter an increase in the required pre-law scholastic average from 2.00 to 2.25 became effective. The second factor was the old system of not finally approving applications for admission until a relatively short time before the opening of the fall quarter. This may have served to divert excellent student material to other law schools. The procedure has accordingly been revised through cooperative action of the Registrar and this College and applications are now being finally processed much earlier. Applications received thus far indicate that we are likely to have a record first-year class next fall. The class may number as high as 225 and total enrollment exceed 425. Since we are currently dividing the first-year group into two sections, the anticipated

increase can be handled in stride. There is no doubt, however, that Page Hall will be quite congested with 425 or more law students crowding its facilities.

Two steps have been taken during the year to raise the quality of our beginning students. It is not enough to establish minimum requirements as to quantity of pre-law academic work and as to scholastic performance. Thus, we hope to assist in the improvement of the pre-law program by closer consultation with those engaged in shaping and directing such programs. A second line of attack is the employment of a legal aptitude test. Beginning with the current group of applicants all candidates are required to take a legal aptitude test devised and administered by the Educational Testing Service of Princeton, New Jersey. A notable advantage of this test is that over fifteen well-known law schools are participating in its use and comparative data as to experience with the device will be made available to each school. Employment of the test is experimental; the results will be given only

advisory weight until it is validated by experience.

At the opening of the 1947 autumn quarter a program of introductory lectures for new students was inaugurated. Such a plan serves two useful purposes. It provides the beginners with a favorable psychological context and it gives them a tentative set of working ideas as to both objectives and methods in law study and the legal system. The program will be continued.

The authorized faculty complement at the beginning of the period was fourteen full-time members and one special lecturer. Three positions were new. They were a senior professorship, an assistant professorship and the position of law librarian with the rank of assistant professor. There was also a senior vacancy caused by the resignation of Professor Norman D. Lattin. Occasion arose in August, 1947, to fill a fifth position temporarily. Associate Professor Roland J. Stanger was, on urgent request from the State Department, granted a year's leave of absence to serve the Department as Assistant Foreign Trade Administrator in the Greek Government. Mr. Stanger will be back for the 1948-49 sessions.

Mr. Lattin's place has been filled by Mr. Justin H. Folkerth with the rank of associate professor. He is an honor graduate of the class of 1937 and has had rich and varied experience in private practice and as a government attorney. He is conducting the courses in Private Corporations, Negotiable Instruments Law and Sales and is serving as Director of Placement for the College. As a temporary assignment he also taught, during the past academic year, the course in Domestic Relations.

Mr. Ervin H. Pollack joined the faculty in September, 1947, as law librarian. He is a graduate of the School of Law of Washington University of St. Louis, has had training in library science at Columbia University, has spent more than two years as assistant to the librarian of the

Columbia University Law Library and has had very valuable administrative experience with the Federal government.

Mr. Alwyn V. Freeman, an outstanding student of International Law, took Mr. Stanger's place during the latter's leave of absence. Mr. Freeman is a graduate of the Harvard Law School and holds a doctor's degree from the University of Geneva. In addition to conducting the basic Contracts course Mr. Freeman offered a course in International Law and a seminar in Comparative Law. He will continue to share in the work of the College during 1948-49 as Lecturer in International Law.

The new senior position has not been filled on a permanent basis. It has been the good fortune of the College, however, to have the position occupied temporarily by Professor Underhill Moore of Yale. Mr. Moore took up his work here at the outset of the 1948 spring quarter and will continue through the 1948-49 academic year. Although he is emeritus at Yale he has not reached the Ohio State retirement age and the College of Law is extremely fortunate to have the benefit of his profound scholarship and rare critical faculties.

The new assistant professorship is to be filled by Mr. Vaughn C. Ball of St. Louis, Missouri. He will conduct the courses in Criminal Law, Criminal Procedure and Domestic Relations and serve as faculty adviser for the Ohio State Law Journal. He is an honor graduate of the School of Law of Washington University of St. Louis. He has had five years of practical experience, marked by much trial work, and has taught for two years at his alma mater and at a summer session of the University of Texas. He comes to Ohio State from the Yale Law School where he has just completed a year's work under a Sterling Research Fellowship and where he is a candidate for the J.S.D. degree.

Mr. Joseph S. Platt of the Columbus Bar is continuing to serve the College as Lecturer in Federal Taxation.

The 1948 summer faculty consisted of two distinguished visitors and of seven members of the regular faculty. Judge Charles E. Clark of the United States Circuit Court of Appeals for the Second Circuit, who is a former Dean of the Yale Law School, is conducting a course in Federal Courts during the first term. Mr. Karl Fenning, an outstanding member of the Patent Bar of Washington, D. C., and a former Professor of Patent Law at Georgetown University is offering a course in Copyright and Patent Law during the second term.

An adequate research library is an essential element of any effective law school program. During the past ten months, through the splendid cooperation of the Board of Trustees and the Administration, we have made decisive progress in the development of our library collection.

By reason of very favorable financial arrangements we have been able to acquire books in excess of our original plans and can report that our library collection is no longer at the bottom of the Big Ten list. Since October 1947, we have added over 11,000 volumes (books and unbound publications).

By October 1948, we anticipate the addition of some 6,000 additional volumes. Of the 11,000 recent acquisitions approximately 4,000 were gifts from out-of-state sources. We are filling noticeable gaps in basic areas of teaching and research.

As a service feature, 55,000 volumes of the collection were recently reshelfed, rearranged and cleaned to permit the most effective utilization of the materials.

Now that we have added some of the basic research sources which we formerly lacked, we plan to institute by the fall an extensive reference service for the members of the Ohio Bar. This service, we believe, will be most helpful to those members of the Bar who are not convenient to adequate law library facilities.

We plan to have a law library of 100,000 accessions within two years, by add-

ing about 17,000 volumes each year. While we do not propose to challenge the largest law library of the Big Ten in numbers of volumes, we intend to be in the forefront in terms of service, administration and research.

In keeping with plans laid in the 1946-47 academic year the Ohio State Law Journal was reactivated during the 1947-48 period. It will be recalled that the exigencies of the War years brought about the suspension of publication of the Journal. The revived publication is a much more ambitious venture. It is a quarterly, which is dressed in an attractive new format. It is conducted under the aegis of the College. The old Journal was a student bar association activity. The general plan is for the article material and, on occasion, some of the student contributions, to concentrate on a central theme of large current interest. The Winter 1948 number focused on Municipal Home Rule in Ohio. The Spring 1948 issue was devoted to certain aspects of Federal Jurisdiction and Procedure. It is the policy of the faculty to rest editorial and managerial responsibility largely upon the students' shoulders. The students have accepted and discharged their responsibilities with great energy and ability.

A five-man faculty committee has been working nearly all year on curricular problems. The function of the committee has been to re-examine the whole program of instruction with an eye both to objectives, to selection of courses and to teaching methods. The work is still unfinished.

In an effort to provide strong stimulation to research and productive scholarship some adjustment has been made in faculty teaching loads, in keeping with the best practices in the leading law schools. These efforts are already bearing fruit. During the current calendar year faculty members are contributing a number of leading articles to legal periodicals. Mr. Mathews, Mr. Strong, Mr. Callahan and the Dean are all working

on books. Mr. Hunter is preparing Ohio annotations to the American Law Institute Restatement of Judgments. Mr. Pollack is supervising the preparation of a cumulative index of opinions of the Attorney General of Ohio and is preparing a compilation of the court rules of the state of Ohio and Federal courts in Ohio.

Each senior must see service during one quarter in the Legal Aid Clinic. The large increase in third-year students has presented a need for more clinical material. Fortunately for this training program, the volume of legal business brought to the Clinic has risen in rough proportion to the increase in student numbers. This means that the service contribution made by the Clinic to the community has been proportionately larger.

During the year a formal placement service was established under the direction of Mr. Folkerth. While the service has already been very helpful to our graduates, the Director has been somewhat handicapped during the past year by an adverse time factor. During the 1948-49 academic year we should be in a position to help each graduate put his best foot forward in a timely fashion. A splendid general Placement Committee of the College of Law Alumni Association has been appointed and it is anticipated that local committees will be established throughout the state. Mr. Folkerth will work in cooperation with these alumni committees.

A development of great significance to the College of Law during the past year was the organization of the College of Law Alumni Association. The College will benefit greatly from the interest, advice and cooperative efforts of its organized alumni.

The annual College of Law Dinner and Awards Night ceremony, held on the evening of Saturday, April 17, 1948, was the occasion for a splendid gathering of alumni, students and faculty members. The group overflowed one of

the largest banquet halls in Columbus. The principal speaker was Justice Wiley Rutledge of the Supreme Court of the United States.

On our agenda is the preparation of an up-to-date law alumni directory. The University Development Fund has allocated \$2,000 to the financing of the project.

We are sensitive to the great service possibilities of the College, which go beyond our primary efforts in the fields of teaching, research and writing. We visualize splendid opportunities for working with state agencies, local units of government and organized bar groups in activities calculated to improve the law and its administration. We have made but a modest beginning in this area but we are rapidly developing the potential, which will enable us to contribute in a large way.

The faculty of the College of Law is more concerned with the vital development of the institutional life of the College than it is with physical trappings. At the same time, the inadequacies of the present physical plant have been made more acutely apparent during the year just closed. We are in a period of major development. Already we have moved forward quite substantially on a broad front. With the advantages of a modern, well-designed building our progress would, to put it most conservatively, be materially facilitated. Ohio is entitled to expect great things of the College of Law of its magnificent state university. It is not unreasonable, in turn, for the College to ask that it be given a physical environment in keeping with its responsibilities. The deficiencies of the present law building and the functional requirements which should be met in a new structure have already been laid before you in some detail. It is the earnest hope of my colleagues and me that provision will be made at the forthcoming session of the General Assembly of Ohio for the construction of a new home for the College of Law.

Medicine

THE immediately preceding annual reports from the College of Medicine have each been concluded with a summarization of the planning and blueprinting for the desperately needed expansion of our physical facilities into a truly comprehensive Medical Health Center for the State of Ohio. This year we begin with a statement of the final consummation of the planning phase of our Medical Center Development and the starting of the actual construction phases of this project, so significant to the University and to the people of Ohio. To Governors Bricker, Lausche and Herbert, and to the 96th and 97th Legislative Assemblies, as they have recognized and interpreted and financially supported the current and future needs of medical education and medical service for the people of Ohio, belong the thanks of the University and of all the people for these accomplishments.

On March 3, 1948, bids were taken and contracts awarded for the building of the new six-hundred bed University Hospital and the new Dental College Clinic building. On April 20, 1948, the first physical activity began in the area just west of the present Medical School buildings, and on May 13, 1948, the formal ground-breaking exercises took place with the Governor, the President of the University, and other State and University officials participating. The contractors are proceeding rapidly at the present time, with the anticipation of occupancy by the College of Medicine within eighteen to twenty-four months.

Plans have been completed and approved for the Tuberculosis Hospital under the State Department of Health, and the Neuro-Psychiatric Receiving Hospital under the State Department of Public Welfare, and bids will be taken for these two essential auxiliary teaching and research units in our cooperative Medical Center by mid-summer.

In November, 1947, the Board of Trustees of the University, on recommendation of the College of Medicine, officially approved the initiation of negotiations with the National Veterans Administration for the construction of a Veterans Administration Hospital Unit to be functionally related to the Medical Center, so that the more than 200,000 veterans in Central Ohio, may have the benefit of the facilities which are being provided for all the citizens of this state. In the early Spring of 1948, the Medical Director of the Veterans Administration authorized the establishment of a Dean's Committee to cooperate in the educational program of the N.V.A., and provision has been made for consultation and resident training supervision by our faculty in neuro-psychiatry at the Chillocothe Federal Institution.

At the same board meeting plans for responding to the invitation of the Federal government through the Cancer Research Division of the United States Public Health Service, to construct adequate research cancer facilities, as a part of the Center, were likewise authorized by the Board. As of July 1, 1948, both of these avenues for patient service, for medical education and for basic research have been developed to the point where it is hoped that in the coming year definite realization of these aims and objectives may be achieved.

As has been emphasized repeatedly in the past, any physical facilities, which may be provided for the College of Medicine, are simply the means to a worthy end,—viz., the providing of the basic essentials for a fine medical faculty to use in the accomplishment of that fully-rounded, medical teaching and professional service, with more and abler students, to which their lives are already dedicated. The steps which have been taken during the past four post-war years, in terms both of new appoint-

ments to our Faculty, and of enlarging, though still potential, teaching facilities, will eventually help to meet, on the one hand, the tremendous demands of the nation for more doctors, and, on the other, the great desire of young men and women to study medicine today, and to receive post-graduate specialty training on a greatly expanded basis.

The fair and judicious selection of medical students is the most difficult problem facing all medical faculties today. It is being approached honestly and sincerely here and, insofar as possible, from the standpoint of the best interests of all concerned. After a good deal of practical experience, it is the considered judgment and conviction of our Faculty that it is not a kindness to accept for the study of medicine every individual who desires, in all conscience and idealism, to be a physician. There are essentials of perseverance, of temperament, of self-sacrifice and personality, as well as of fundamental integrity and intelligence, which are necessary to the successful completion of a medical education. The earlier any inaptitudes for a medical career are discovered, as in every other chosen field, the happier for the individual and the less the economic waste. While our methods for making selections are still relatively crude and admittedly as fallible as any human judgments may be, nevertheless, the statistics which have been accumulated through years of conscientious and objective study and experience, tend to support the validity of the great majority of the decisions made. With the basic thesis that more and better trained physicians are essential to the health and welfare of our citizens, the College of Medicine is proceeding as rapidly, as honestly, and as effectively as possible to accomplish these objectives. We graduated 75 senior medical students in March 1947, and 72 in March 1948. We have trained the equivalent of a fifth class of approximately 75 interne and resident physicians in the University Hospitals this year.

Our educational responsibility does not end, however, with the selection of our students, the conferring of the medical degree, and the providing of five to eight years of post-graduate resident specialty training in the University Hospital. In December 1947, the Faculties of Medicine and Dentistry established a Health Center Journal on a quarterly basis, with financial assistance from the Alumni Development Fund, to convey to our professional alumni and to physicians, dentists, nurses and other interested health workers everywhere, the scientific advances which are being made, here and elsewhere, so rapidly today. This Journal has a circulation of approximately 6,000 at the present time, and is filling a long-felt need for the direct extension of such medical facts beyond the confines of this Campus.

On December 6, 1947, the 10th Annual Post Collegiate Assembly, celebrating the 113th anniversary of the founding of this College of Medicine, was held with a scientific program. At this time there was established a Medical Alumni Achievement and Distinguished Service Award, which on unanimous vote of the Medical Faculty, was awarded to Dr. Verne A. Dodd, Professor of Surgery, and Dr. Robert Allen Moore, Professor of Pathology and Dean of the School of Medicine at Washington University, St. Louis. It is expected that this will become an annual tradition.

Scientific exhibits were presented by the Department of Medicine at the 100th Anniversary meeting of the American Medical Association, Atlantic City, June 1947, and again at the Midwinter American Medical Association meeting in Cleveland, in January 1948 and also at the Indiana State Medical Association meeting in October 1947. The Department of Medicine, Pathology, Surgery, Obstetrics and Gynecology, and Roentgenology prepared scientific exhibits for the Ohio State Medical Association at Cincinnati, in April 1948.

Within the College of Medicine there



BREAKING GROUND for the new Medical Health Center is Herbert S. Atkinson, chairman of the Ohio State University Board of Trustees, at ceremonies on May 13, 1948. Looking on are, left to right: Carl E. Steeb, secretary of the Board; Carlton S. Dargusch and Donald C. Power, members of the Board; Dean Wendell D. Postle of the College of Dentistry; John D. Louis, representing the Senior Class in Dentistry, and Stanley Jacobs, representing the Senior Class in Medicine.

were established during the past academic year, two new departments. On July 1, 1947, the Department of Radiology was established on an independent basis, having been administered previously in the Department of Surgery. The new full-time medical personnel, plus a large-scale resident training program has brought into full fruition the essential teaching service and research programs of today.

On July 1, 1948 there was created a new Department of Preventive Medicine under the chairmanship of Dr. Benjamin C. Houghton, which includes and encompasses Public Health, Nutrition and Industrial Hygiene. The increasing importance of the preventive aspects of medical practice and the need for fundamental research in this area require the emphasis which such an independent department only can give in the present day. The personnel in this department reflect the close association which must exist between the College of Medicine, the Ohio State Department of Health, and the Columbus City Department of Health. Public health officials in each of the latter two areas hold faculty appointments in the Department of Preventive Medicine, thereby assuring the collaboration which will be in the best interest of attaining the objectives in all of these areas. The Department will co-operate with the School of Social Administration in the joint teaching program for medical social workers.

On July 15, 1947, the Division of Anesthesia in the Hospital, which had been without a head for the preceding three months, received a new Director, Dr. Jay J. Jacoby, M.D., Ph.D. (Anesthesiology), from the University of Chicago. During this year, the teaching and service and research activities in this area have been developed in a gratifying manner by Dr. Jacoby, and closer cooperation and teaching relationships have been established with St. Francis Hospital, the Children's Hospital, the Franklin County Tuberculosis Sanatorium and others.

On September 1, 1947, the National Advisory Cancer Council of the United States Public Health Service announced a \$25,000 grant to the University for the support and further development of the teaching program in cancer. With these federal funds it has been possible to establish a professorship of Oncology, to which Dr. Herman A. Hoster, formerly Associate Professor of Research Medicine, has been appointed, an Associate Professorship of Oncology to which Dr. Hans Schlumberger, Department of Pathology, has been appointed, and a Cancer Research Fellowship, to which Dr. Robert P. Zanes, Jr., has been appointed.

The Amalgamation of the University Tumor Clinic, with the Columbus Cancer Clinic, located at 221 E. State Street, has been facilitated through the application of a part of this grant, for the creation of new University Research Laboratories for the clinical study of cancer at the Columbus Cancer Clinic. Instruments and equipment to facilitate this teaching, research and service program have also been provided, in part, by this grant. The jointly sponsored Franklin County Tumor Registry now has over 2000 cancer cases in its active files. The Dean of the College of Medicine, as the Medical Director of the Columbus Cancer Clinic and the Director of Cancer Research in the University, also provides direct association with the Ohio Division of the American Cancer Society, and the Committee on Growth, from which additional financial support is being received by various units of the University in support of specific cancer research projects. A renewal of the original \$25,000 grant, for the second year, has just been approved.

The Julius F. Stone Research Foundation and Fellowship funds have been increased by a substantial gift from Mr. Franz Stone, so that the fundamental studies in the biological application of radioactive isotopes, under the direction of Dr. William G. Myers (Julius F.

Stone Research Fellow) and Dr. Joseph T. Morton, Associate Professor of Radiology, have progressed at an increased tempo. The discovery of the potential importance of radioactive cobalt to the treatment of certain types of cancer is only one of the results which are coming from this area at this time. The completion of a new "hot isotope" laboratory on the Campus with funds appropriated by the last Legislative Assembly, will greatly facilitate the collaboration between Physics, Electrical Engineering and Medicine as this important frontier of science is further explored and conquered. Professor Morton was given a three months' leave of absence during the Spring of 1948, to participate, by invitation in "Operation Sandstone" at the Enitewok Proving Grounds, which resulted in a rare opportunity for him to secure the information essential to further teaching of preventive measures against the dangers of civilian and military application of atomic energy.

Detailed reports from every Department in the College of Medicine reflect the specific accomplishments in each area, together with comprehensive plans in anticipation of the expanding opportunities just ahead. Publications from the various members of the Medical Faculty, as reported through their respective departments, number 144 for the current academic year. The subjects reported cover the entire field of medicine from the basic, preclinical sciences through all of the clinical, medical specialties, and reflect the investigative accomplishments of our faculty, in spite of the extremely limited research laboratory facilities at the present time.

We have continued to use with increasing effectiveness for clinical teaching the facilities at St. Francis Hospital, Children's Hospital, the Columbus State Hospital and the Franklin County Tuberculosis Sanatorium. The patients at these institutions have been available through the active and efficient cooperation of their respective administrative

and professional staffs. Without these auxiliary services added to those at University Hospital, our clinical teaching could not have been effectively accomplished. We have been particularly appreciative of the splendid collaboration which has existed during the past year with St. Francis Hospital and its 123 teaching beds, under the direction of Sister Superior Ferdinand. The Intern and Resident Staff, as well as the attending teaching staff, rotate between services at University Hospital and those at St. Francis Hospital, and with the reorganization of the clinical pathological laboratory under a new appointee of the Department of Pathology, the teaching facilities and the patient service are both on the highest professional plane.

Dr. Bruce K. Wiseman, Professor and Chairman of the Department of Medicine has been the Chief of Staff at St. Francis Hospital for the current year; as of July 1, 1948, Dr. Robert M. Zollinger assumes the responsibilities as Chief of Staff at St. Francis Hospital, and Dr. Wiseman succeeds Dr. Verne A. Dodd as Chief of Staff at the University Hospital.

During the period July 1, 1947 to June 30, 1948, there were 10,640 patients admitted to the University Hospital as compared with 10,150 patients during the preceding twelve-month period; and 97,162 patient days. There were 57,877 patient visits to the Out Patient Department, an increase of 8,609 visits over the preceding year.

Nursing Education in the University Hospital has continued during the current year under Miss Frances McKenna, as Director, with 45 graduates receiving the B.Sc. degree in Nursing Education, and 13 the certificate of Registered Nurse. The three-year program leading to certification is being discontinued this year, and only the four-year degree program will be offered in the future. The number of applicants for the School of Nursing is increasing and the prospects are more optimistic this year than last

for a full enrollment in the entering classes which begin in October and March of this year.

Nursing Service in the University Hospital has been maintained at nearer optimum levels, through the availability of nurses among the wives of the student population, so that a double service has been rendered in securing them for the University Hospital. Miss Italia Sears has been succeeded by Miss Irma Nickerson as Chief of Nursing Service in the University Hospital, and the increasingly effective cooperation between Nursing School and Nursing Service which has been achieved this year, is assured of continuance.

During the current year, a communication was received from the Secretary of War, requesting the reactivation of the 49th Evacuation Hospital. On recommendation of the Medical Faculty, and with the approval of the University Administration, the invitation to reorganize this unit was accepted, and Dr. Kenneth M. Smith, Assistant Professor of Medicine, and Lieutenant Colonel in the U. S. Medical Reserve, was asked to become the Chief Administrative Officer. The details of organization have been essentially completed. The entire medical faculty was canvassed and the past military record, and present and future availability of each physician has been ascertained, with the information on file in the office of the College of Medicine.

As we review the past 75 years of accomplishment of Ohio State University and the 114 years of continuous medical education represented by its College of Medicine, it is with a very real sense of gratitude for the broad and firm foundations which have been laid for education in general, and for medical education in particular, in this institution. As we look to the future, in the dawn of a new atomic era, with all of its increased possibilities for better mental and physical health for all peoples, it is with confidence and assurance that this University will be prepared to meet the challenge,

and make its essential contribution according to the will of the People.

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Pharmacy

THE educational program of the College of Pharmacy is based on the concept that the pharmacist is a professional man whose training prepares him to render a highly specialized technical service to the other health professions and an efficient and effective pharmaceutical service to the general public; that he is a drug specialist who understands the scientific bases of drugs and drug action; and that he can critically evaluate drugs and medicinal preparations and, in this capacity, advise with physicians and members of other health professions concerning drugs and their uses. It is based on the recognition that the pharmacist is a professional man who must thoroughly understand what he is doing and must know the reasons and fundamental principles governing his activities. It is further based on the concept that the work of the pharmacist is constantly changing in character and, therefore, he must be educated in fact and principle so that he can keep pace with progress and provide the kind of pharmaceutical service that is needed not only now, but that will be needed twenty-five or fifty years hence.

It is on the basis of this concept of the pharmacist and his functions that the curricula and program of the College of Pharmacy are evolved, constructed, and evaluated. Since 85 per cent of the graduates of the college engage in practice in the pharmacies of the state, it is evident that major emphasis must be directed toward operation of a program of instruction that will provide the necessary education and training for this type of practitioner.

To this end, the curricula of the college have been expanded to cover a two-year pre-pharmacy curriculum and a

three-year professional curriculum, covering a total of five years. During recent years, many pharmacists and pharmaceutical educators have advocated the lengthening of the period of pharmaceutical education beyond that of four years. Most of the proposals have favored a five-year program—a few have favored a six-year period. The reasons advanced are that two years of pre-pharmacy training would give students a substantial basic training in the fundamental sciences and thus enable them to profit to the fullest extent from the professional courses. This period would also permit the introduction of courses in general education as a support to professional training and a better understanding of the social and economic world in which they live.

Lengthening of the period of training would also permit sufficient flexibility to allow adaptation to the interests of individual students. Likewise, the extension of the educational program to a period extending over more than four years would warrant conferring a professional degree upon the graduates. The professional degree proposed is Doctor of Pharmacy (Phar.D.). All of these factors combined with others would provide a more capable group of graduates for the profession.

The five-year program is now in process of inauguration. To provide for a parallel discontinuance of the four-year and introduction of the five-year curriculum, one year of pre-pharmacy training was required for admission in 1947. In 1948, the full two years of pre-pharmacy instruction will be required for admission to the college.

The inauguration of a five-year curriculum is a very significant milestone in the history of pharmaceutical education, and it may well mark another turning point in the progress of pharmacy. There can be no doubt but that the ultimate preservation of the profession of pharmacy is dependent upon the establishment of improved and extended cur-

ricula to train pharmacists who will have the vision and the competence to advance the practice of the profession, and to maintain pace with progress in related sciences and other health professions. Finally, the five-year program may well be regarded as an intermediate step toward a six-year curriculum.

Continued emphasis is directed toward improvement of instruction. Members of the instructional force regularly and critically review and evaluate course content, laboratory exercises, methods and procedures, and changes and modifications are made to provide for increased efficiency of instruction. During the past year study and observation trips were made by members of the teaching staff to industrial laboratories, hospital pharmacies and colleges of pharmacy. For example, one staff member visited the University of Iowa to study and observe the practices, procedures and administration of the hospital pharmacy, and the relationship of the instructional program of the College of Pharmacy to the practice of pharmacy in the hospital. Another staff member visited the University of Illinois College of Pharmacy to study and observe the teaching practices and procedures. A third visited the pharmacology department of the Wm. S. Merrell Co., Cincinnati, Ohio, to study the laboratory practices and procedures as applied to pharmaceutical manufacturing. This plan has not only resulted in the utilization and application of new ideas, but it has served as a stimulus to staff members to study, observe and critically evaluate their own instruction.

For teachers in the colleges, the profession demands training represented by the Master of Science and the Doctor of Philosophy degrees: hence, some colleges must offer graduate programs in the pharmaceutical subjects to train teachers for the colleges. This college offers programs leading to both the Master's and the Doctorate degrees in each of the subdivisions of pharmacy.

During the past year, the Doctor of

Philosophy degree was granted to five students. This is important for two reasons; namely, it indicates that graduate instruction in pharmacy is now on a well established and substantial foundation. Secondly, all of those receiving this degree entered the teaching field and are now members of faculties of colleges of pharmacy as follows:

- 1—Duquesne University, College of Pharmacy, Pittsburgh
- 1—Howard University, College of Pharmacy, Washington, D. C.
- 1—Utah University, College of Pharmacy, Salt Lake City
- 2—Ohio State University, College of Pharmacy, Columbus

This constitutes an important contribution to the profession of pharmacy, particularly significant because of the critical need for teachers.

The graduate program is likewise important to the college in that some of the students serve as assistants and thus make it possible for regular staff members to give more thorough attention to instruction. The contacts with graduate students and the opportunity to observe what they are doing serves as a stimulus to undergraduate students to apply themselves more effectively to their studies.

A national survey of Pharmacy has been in progress for the past two years. This was brought about through the initiative of the American Association of Colleges of Pharmacy, with the hope that such a survey would reinforce the foundations for a sound educational pattern for the profession of pharmacy. The fact finding stages now have been completed and a complete report with recommendations is to be issued during the coming fall (1948). Mention of this survey should be made in this report for several reasons; namely, members of the teaching staff of this college have made valuable contributions in the form of information and technical advice; this college should help in the implementation of the recommendations coming

out of the survey; and the results should be valuable in determination of the future programs and policies of this college. This survey and the implementation of the recommendations may well serve as the basis which will determine not only the future educational pattern for Pharmacy but will likewise determine the future trends and progress of the profession in all that it embraces.

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Veterinary Medicine

DURING the past year there has been a continued increase in the demand for training in the field of veterinary medicine. Here at The Ohio State University the number of qualified applicants for admission to the Freshman Class numbered well over four hundred, out of which number only seventy could be admitted. In taking this number of students, our college is admitting about twenty-five per cent more students than our present facilities warrant, and are likely to be criticized by the Committee on Education of the American Veterinary Medical Association. However, our faculty feels that during this great demand for education by veterans and the need for additional trained veterinarians it is our duty to expand our program to the limit in keeping with sound educational principles.

With the greater maturity and more sincerity of purpose of the students selected it is our feeling that our educational standards will be maintained. The big problem in such large classes is to provide adequate clinical training. In order to meet this situation, our college has started a program of year round operation of the Veterinary Hospital instead of three quarters as heretofore. By so doing, part of the students can be given intensive clinical training during the summer months, and thereby reduces the clinical teaching load during the regular school year. The year round operation of the clinic will also tend to pro-

vide a more abundant and uniform flow of clinical material for teaching purposes.

In line with the general trend in veterinary education the Executive Committee of the college unanimously agreed that two years pre-professional college work should be required for admission to the College of Veterinary Medicine.

A committee from the college, working with the College of Arts and Sciences and the College of Agriculture worked out the two year pre-professional program which was later given the approval of the Council on Instruction and the Faculty Council of the University. This program will become effective with the class admitted to the college for the fall quarter 1949.

In connection with the change of the pre-professional requirements, our college undertook a study and revision of the entire veterinary curriculum. This has not been done for a period of about fifteen years and was necessary to meet the changing demands of the profession. After careful study a revised program of instruction was approved by the Faculty of the college and the Council on Instruction of the University. Our faculty is very enthusiastic over the revised program and feel that it will insure far more adequate training in the field of veterinary medicine.

During the past year there were quite a few changes and additions in personnel. Dr. Leonard W. Goss retired after a period of twenty-seven years service as Professor and Chairman of the Department of Veterinary Pathology. During his years of service the Department of Veterinary Pathology assumed a major role in the development of instruction and newer knowledge in this particular field. Dr. Clarence R. Cole of the Department of Veterinary Pathology was named as Chairman to succeed Dr. Goss. Other additions to that Department were Dr. Calvin Turbes, Instructor and Miss Ann Mahoney, Technical Assistant.

Other changes in personnel in the college during the year were Dr. Leroy

Johnson, Assistant Instructor in the Department of Veterinary Surgery. Dr. Charles Lindborg, Instructor and Dr. Harold Amstutz, Instructor in the Department of Veterinary Medicine; Dr. Carl H. Clark, Instructor in the Department of Veterinary Physiology and Pharmacology and Dr. Charles Diesem, Instructor in the Department of Veterinary Anatomy.

In a reorganization of the clinical program, Dr. Vernon L. Tharp was appointed Director of Clinics; Dr. Earl J. Catcott, Assistant Director of Clinics and Mrs. Betty Houck, Assistant to the Director of Clinics.

In the past year the College of Veterinary Medicine sustained a great loss in the illness and death on October 24, 1947 of Dr. Walter R. Hobbs, who has been a member of the staff for the past thirty-three years. During this period Dr. Hobbs served eighteen years as Secretary of the College, one year as Acting Dean and four years as Chairman of the Department of Veterinary Medicine. Dr. Hobbs was outstanding in the field of medicine and small animal diseases. Of him it could truly be said that he was a real friend of the students and the College of Veterinary Medicine will feel his loss. Dr. Russell E. Rebrassier served as Acting Secretary of the College for the remainder of the school year.

A gift of \$700 was received from the Robert Gould Research Foundation for the purpose of financing a one day Nutrition program in connection with our annual program for veterinarians. This was a decided innovation from the usual veterinary conference program and was well received by those in attendance. It is hoped to make this an annual affair since no one is in a better position to improve the level of nutrition among our animal population than the veterinarian who has the confidence and works so closely with the herd and flock owners. This year's conference was one of the most successful that our college has held. Nearly four hundred veter-

inarians registered for the three day session.

Our research program has been greatly expanded during the past year. In cooperation with the Veterinary Research Division of the Ohio Agricultural Experiment Station, an extensive program of Brucellosis research is under way. Dr. J. H. Helwig and Dr. W. G. Venzke are actively engaged in this program, while other staff members are serving in an advisory capacity.

Other diseases being investigated are Ketosis, Coccidiosis, Mastitis, Hog Cholera and parasitic diseases. Out of the research of the past year have come several scientific publications. Also a revision of the monograph "Life Cycles of Parasites and their Identification" was made by Dr. F. R. Koutz and Dr. R. E. Rebrassier of the Department of Veterinary Parasitology. This revision elicited very favorable comment from reviewers in the field of veterinary literature. Also during the year a Surgical Laboratory has been equipped and a program for

cooperative surgical research between the departments of Surgery of the College of Medicine and Veterinary Medicine is about to get under way. It is our feeling that greater cooperative research of this type between departments should be encouraged for the mutual benefit of all concerned.

During the past year the college was inspected by a Committee from the Council on Education of the American Veterinary Medical Association. Our college was again listed among the accredited colleges of veterinary medicine in North America. However, it should be pointed out that the committee was rather critical as to the limited physical facilities for clinical patients, research and laboratories for graduate training. Our faculty and the University Administration are fully cognizant of this fact and it is sincerely hoped that the needs for the various departments which were assembled and presented to the University Officials during the past year, may soon be provided.

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The Graduate School

LAST year's Annual Report, referring to the year 1946-47, dealt largely with the problems associated with the marked increase in the number of graduate students. The theme of the report was to the effect that the quality and philosophy of graduate education, where individual rather than mass education is imperative, should not be allowed to suffer under the pressures imposed by large enrollments. A concomitant issue was raised to the effect that research by the faculty and graduate students is to be conducted at a high level of quality without compromise on account of heavy teaching duties and crowded research facilities.

In continuing its encouragement of effective graduate study and research and to meet the heavy demands imposed by

a large graduate student body, the Graduate School during the past year (1947-48) has carried on a program of review and revision of the numerous procedures administered by the Graduate School. The reviews have been made largely by standing and special committees, and the revisions have been accomplished by Graduate Council action. The wide scope of the measures adopted implies an agreement and active interest, on the part of the graduate faculty and departments offering graduate work, with the aims and program of the Graduate School. To facilitate the joint responsibilities and objectives of the Graduate School and graduate faculty, a means of distributing information and expressing the philosophy of the Graduate School was necessary. The

Graduate School Record, a monthly publication, has been published during the year and has proven effective in supplying this need for coordinating the work of our loosely-knit organization.

The Graduate School has played a significant role in the University by encouraging scholarly activities of numerous types. It has had additional funds for Fellowships and Scholarships for especially qualified graduate students; instituted a Post-doctoral Fellowship; assisted in the administration of special Fellowships sponsored by numerous individuals, groups and commercial interests; aided in inaugurating the appointment of University Research Professorships; advanced its program of publishing scholarly works written by members of the faculty; encouraged the development of joint programs of research and of institutes for the study of subjects of wide University interest; granted honoraria for visiting lecturers; and supported research by the faculty by providing limited funds for research assistance, library acquisitions and special scientific equipment.

Enrollment in the Graduate School at a high level throughout the year did not show the decrease experienced by the University as a whole. Gross enrollment in selected years, by Quarters, is presented below.

Quarter	1938-39	1943-44	1946-47	1947-48
Summer ..	1895	939	2310	2819
Autumn ..	1362	566	2128	2487
Winter ...	1279	536	2223	2392
Spring	1306	507	2313	2386
Totals ..	6842	2548	8974	10,084

Net enrollments in the Graduate School showed a similar increase, and a larger number of students obtained graduate degrees than at any time in the past, with the exception of Ph.D. degrees in one pre-war year. These data are given in the following table:

Quarter	1938-39	1943-44	1946-47	1947-48
Net enrollment for the year .	4105	1400	4131	4452
Masters' degrees ..	591	208	485	789
Ph.D. degrees	101	75	110	125

Measures adopted to provide more efficient procedures and designed for the advantage of the large number of students are: earlier dates of registration for each Quarter; earlier submission of theses and dissertations in the Quarter of graduation; more effective methods for the registration of students; wider publicity of Graduate School procedures; greater attention to the needs and problems of the individual graduate student; and elimination of the Graduate Record Examination as a routine requirement for entering graduate students.

The applications for admission to the Graduate School have exceeded the facilities for graduate work in many departments. Limitation in enrollment has been accomplished by increasing the scholastic requirements for admission and raising the level of achievement required for graduate degrees. These objectives were accomplished by adopting the following practices: a higher college point-hour ratio for admission to the Graduate School (2.5 over-all and 2.7 in



the major subject); a 3.0 point-hour ratio and not less than $\frac{1}{2}$ of the hours with "C" grade for the Masters' degrees; a quarterly review of students' records by the Deans and Secretary of the Graduate School, with consequent classification and notification of the students' standing in the Graduate School; an examination in English composition taken by students entering the Graduate School with a point-hour ratio of less than 2.7 in all college work presented for admission; the encouragement of departments to organize graduate committees to administer departmental graduate affairs; and the recommendation by the Graduate Council, subsequently approved by the Faculty Council and the Board of Trustees, that persons on the University teaching staff with the rank of assistant professor not be permitted to be candidates for graduate degrees.

The significance of competence in the use and study of language as a means of communication was emphasized in a revision of the foreign language requirements for the Ph.D. degree and by an issue of the Graduate School Record being devoted to the importance of language facility.

The Department of Welding Engineering was approved to offer work leading to the Master of Science degree and the Department of Radiology for work toward the degree of Master of Medical Science.

The Graduate School sponsored lectures by thirty-four scholars from other institutions in this country and abroad. These lectures were offered jointly with fifteen departments and scientific groups in six colleges, and were on a wide range of subjects in biology, agriculture, economics, political science, sociology, mathematics, physics, chemistry, engineering and astronomy.

The Wright-Patterson Graduate Center has continued its program of providing graduate instruction, with the cooperation of the Air Force. The Graduate Center is administered under the

Twilight School, Mr. L. K. Cooperrider, Director. Dean Emeritus Alpheus W. Smith has served as Coordinator. During the year, 1250 student registrations have been made in 114 courses offered by the Departments of Aeronautical Engineering, Business Organization, Chemical Engineering, Chemistry, Economics, Electrical Engineering, Industrial Engineering, Mathematics, Mechanical Engineering, Mechanics, Physics, Physiology, and Psychology. Nine students were granted the degree Master of Science in the year 1947-48, in the fields of Electrical, Chemical, and Mechanical Engineering.

The Graduate School Record, edited by Assistant Dean Ralph L. Dewey, has been published monthly from October 1947. It has regularly contained editorials, articles on research in departments, descriptions of group research programs, contributed articles on matters of Graduate School interest, book reviews, accounts of studies by graduate students, information on Graduate School procedures and their changes, statistics of the Graduate School, and miscellaneous notes and notices. The Record has proven effective as a means of communication to the many graduate students and graduate faculty in 69 departments offering work toward graduate degrees. It also has provided a medium through which the influence of the Graduate School Office may be exerted and the philosophy of the Graduate School expressed. While the Record is prepared for use in The Ohio State University, it is mailed to the Deans of graduate schools of the Association of American Universities and to others in graduate education who request it. The Editor has received numerous letters of commendation from recipients in other institutions, as well as from faculty members of this University. The Record is apparently the only publication of its kind in the country and hence holds a unique position in the national program of graduate education.



MASTER PLAN OF OHIO STATE UNIVERSITY

PREPARED AS A GUIDE FOR THE FUTURE
DEVELOPMENT OF THE CAMPUS

OFFICE OF THE
UNIVERSITY ARCHITECT

EXISTING BUILDINGS
PROPOSED BUILDINGS
PROPOSED ROADS
PROPOSED GREEN SPACES

Special Reports

School of Aviation

THE activities of the School of Aviation during the year July 1, 1947 to June 30, 1948 were concerned principally with flight training and flight research work at the Ohio State University Airport and with promotion of research connected with aviation in various departments of the University. C. J. Peirce, Director of the School, has been guiding the various activities of the program throughout the year.

The National Research Council program concerned with a study of stall perception by pilots was carried on for the Department of Aviation Psychology during all four quarters of the year. This work was conducted in two Piper Cub airplanes in which special stall warning equipment was installed. The early part of the program covered the recognition of stall by pilots who were flying under normal conditions. After this work was completed, the pilots' various senses, such as eyes, and then ears were blocked off and attempts were made to determine the effectiveness of the various senses in enabling the pilot to perceive the inception of the stall. All of the work was conducted with one of the regular Don Scott Field Instructors flying along with the students. A total of 130 students participated and a statistical analysis of the data is now being made by the Department of Aviation Psychology.

Flight Training courses covering Primary, Secondary, Instructor, and Instrument Courses were offered at the Airport with the accompanying Ground School Courses being conducted here on the campus. A total of 97 students participated in this program.

The West Hangar at the Airport has been made available to the Department of Aeronautical Engineering for the construction of a supersonic wind tunnel. Much of the equipment which will be used in connection with the wind tunnel

is now stored in this hangar and work on the project is progressing in a satisfactory manner.

Laboratory space for the Department of Civil Engineering and for the Department of Physiology has been provided for research work which is contemplated by these departments.

A Stearman PT-17 biplane has been completely equipped as a crop duster and it is expected that this airplane will be used in crop dusting research work for the College of Agriculture and the Agricultural Experiment Station at Wooster, Ohio.

A large aerial photographic camera has been purchased and installed in a North American AT-6 airplane owned by Don Scott Field, and plans are being made to use this airplane and camera for photographic work by the various departments of the University in the near future.

As part of its program for the promotion of research work in connection with Aviation throughout the University, the School of Aviation has provided research equipment out of funds under its control for the Departments of Aeronautical Engineering, Aviation Psychology, Business Administration, Chemistry, Education, Electrical Engineering, Mechanical Engineering, Physiology, and Physics.

The Ohio State Flying Farmers Association held its annual meeting at Don Scott Field during July, 1947 and plans are underway for the annual convention of the National Flying Farmers Association which is scheduled for September 2, 3, and 4, 1948. A total of 1,000 airplanes is expected at Don Scott Field during this convention.

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Research Foundation

THE Diamond Jubilee Anniversary year of the University marks the twelfth year of operation of the Research

Foundation. During this year the Foundation has continued its steady postwar growth to a level even higher than the peak achieved during the strenuous years of wartime research and development activities.

The function of the Foundation is the organization, integration into the University research program, and administration of researches of sufficient mutual interest and value to the University and to industry or to government to be carried on under contract with a cooperating sponsor. These researches are carried out in the University laboratories under faculty supervision. Under this program, in cooperation with the Graduate School and the different Colleges and their Departments, the Foundation makes a significant contribution to increasing the scope and effectiveness of research in the University. An important public service is performed by the promotion of a close relationship between the University and the cooperating organizations for the support of graduate instruction, the furnishing of valuable supplementary training and development of scientific investigators, and the solution of problems of mutual significance to the University and to the general public as represented by the industrial or governmental sponsoring agencies.

Outstanding developments or increases in knowledge have recently been made in the sponsored research programs in the fields of carbohydrate chemistry, metal-ceramic combination materials known as "Cermets," development of structural clay products, cryogenics and other low temperature phenomena, thermodynamic studies at low and high temperatures (including investigations of fuels and motors), constitution and radiation transmission characteristics of the atmosphere, antenna design and performance, photogrammetry, synthesis and analysis of hydrocarbons, cellular rubber development, and human leadership studies, as examples.

A Cryogenic Conference held on the campus in October, 1947 under the sponsorship of the Office of Naval Research drew nation-wide attendance. The results of a research program on synthetic leather tanning agents, in which the Foundation actively participated in cooperation with other University and industrial laboratories, have been named as one of seven major accomplishments made in leather technology during 1947. Two industrial plants utilizing a sulfur recovery process developed under a Foundation contract have been constructed and put in successful operation, and a pilot plant for utilization of another related development is being built. Five thousand reprints of one of the publications reporting an investigation of the cleansing effectiveness of synthetic detergents were ordered by the industrial sponsor. "The Pay-off in Research," a booklet recently published by the Engineering College Research Council of the American Society for Engineering Education, included the development of the use of nepheline syenite as a ceramic flux as one of twelve illustrative examples of University research with proven industrial value. This flux constitutes one-fifth of the total now being used in the ceramic industry. To this list of accomplishments might be added many others equally deserving recognition for their scientific and educational value, or for their contribution to technological improvements in matters affecting the welfare and comfort of the everyday lives of our citizens.

The support obtained through sponsored research under contract has contributed significantly to the establishment by the University of outstanding laboratories which have received nation-wide or world-wide recognition in particular fields, such as the Cryogenic Laboratory of the Department of Chemistry; the Antenna Laboratory of the Department of Electrical Engineering; the Photogrammetry Laboratory of the Department of Civil Engineering and the

Engineering Experiment Station; the Ceramic Laboratories of the Engineering Experiment Station; and the infrared program of the Department of Physics.

During the past year 120 cooperative research projects were in active operation. Fifty-two of these were sponsored by industrial firms or associations and 68 were sponsored by agencies of the government. These researches, covering a wide range of public interest, were conducted in the laboratories of the following 25 departments of the University: aeronautical engineering, agricultural chemistry, agronomy, bacteriology, ceramic engineering, chemical engineering, chemistry, dairy technology, dentistry, electrical engineering, Engineering Experiment Station, fine and applied arts, Franz Theodore Stone Laboratory, mathematics, mechanical engineering, metallurgy, pathology, physics and astronomy, physiological chemistry, physiology, poultry husbandry, psychology, rural economics, surgical research, and zoology and entomology.

Five hundred thirty-two individuals, appointed by the Board of Trustees of the University, participated in the research projects on a full- or part-time basis. These included 98 members of the University faculty who served as supervisors, consultants, or investigators. In addition, a considerable number of persons was employed on an hourly wage basis. The contribution toward the training and development of research personnel for the needs of the nation is indicated by the fact that 220 members of the research staff were registered in the Graduate School. Of these, 60 received advanced degrees during the year, including 11 Ph.D.'s and one M.D.

The scientific and technical advances achieved under Foundation contracts are illustrated by the fact that during the year members of the research staff presented 91 papers before national scientific societies and contributed 88 articles on the work of the projects to national scientific or technical journals.

During the year the Foundation appropriated \$75,000 from the Research Reserve for transfer to the University in support of fundamental research. These funds were allocated, under the direction of the President of the University, to the support of researches in 21 departments of the University. The total contribution which has been made to the University in this way by the Foundation exceeds \$300,000. In addition, through its sponsored research projects the Foundation has obtained for the University a considerable amount of valuable and needed research equipment by means of which the research programs have been further enhanced.

The development of the Research Foundation is closely coordinated with that of the University. The growth, the achievements and the needs of the one are shared by the other. The ability of the Foundation to contribute to the broadening and strengthening of the University programs of instruction and research and the facilities with which they are conducted is contingent upon the maintenance, improvement and expansion of staffs qualified and competent to direct these programs, and the space, the basic services and the technical facilities that are required to implement them. The healthy ability of the University to serve the needs of the public coincides with that of the Foundation. Both must have continued public understanding and support if their objectives, essential to the welfare of our complex industrial civilization, are to be competently fulfilled.

* * *

Twilight School

THE Twilight School constitutes an extension of the University day into evening hours and thus affords an opportunity to employed persons to continue their education. It has had no phenomenal growth but a continuous one and has become well enough estab-

lished to have shed its element of novelty. Those who have been a part of the program are its most enthusiastic boosters.

The problem throughout the year was that of keeping the Twilight School alive due to the strain upon the University's resources by the large number of veterans enrolled. In fact, the Twilight School has been all that we could have expected, likewise all that we could well provide for. Because of the daytime load, many classes were scheduled for evening hours. This was a decided advantage to the Twilight School as it made a much more comprehensive program available than would otherwise have been true. The enrollment during the year by quarters was: Summer, 654; Autumn, 1463; Winter, 1175; Spring, 1211.

The Graduate Center and its program under the Administration of Twilight School and in cooperation with the

Graduate School and the Army Air Forces at Wright-Patterson Field, Dayton, Ohio, continued to grow in popularity and influence. Dr. Alpheus Smith, Dean Emeritus of the Graduate School, has given valuable help to this project as educational advisor, consultant, and coordinator. This is a unique educational venture with a pioneering quality and is being enthusiastically received by the personnel and head of the Air Force Command. This graduate enrollment during the year by quarters was: Summer, 246; Autumn, 277; Winter, 326; Spring, 239.

These people are working toward a higher degree, having come from approximately 85 different colleges and universities throughout this and other countries. We believe this program to be a significant contribution not only to the continued education of these people but to the advancement of science.

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Athletic Board

THE control of athletics is assigned to the Athletic Board which conforms to requirements set up by the Intercollegiate Conference of Faculty Representatives to provide faculty control of intercollegiate athletic competition.

There are seven faculty members appointed by the President of the University, two alumni members elected by the Alumni Association, two student members elected by the Student Senate, and a representative of the Board of Trustees.

The responsibilities of the board include matters of eligibility for athletic competition, playing schedules, coaching staff, maintenance of the plant, distribution of tickets, awards, broadcasting, publicity, and finances.

The University relations with the other members of the Western Conference are promoted through a faculty representative who maintains constant contact with the other universities

through the Commissioner of Athletics. The representative for this year was Dean Wendell Postle.

During the year 1947-48 the Athletic Board inaugurated a plan for football ticket distribution which gave priorities to students, faculty members and alumni. This plan, put into operation in Autumn of 1947, did much to reduce the dissatisfaction which had been expressed vociferously in previous years by many people. The sale of tickets has been expedited through the use of a new machine purchased from the National Cash Register Company.

The physical facilities for the athletic program were improved in a number of ways. This included a provision for 2500 additional seats in the stadium, waterproofing one section of the stadium, remodeling the southeast tower to provide a new lecture room, a new storage room, a new equipment room, and a new repair room, covering the ground

underneath the east side of the stadium with a "black-top" material, providing overhead doors on each side of the shelter house at the golf course and remodeling and enlarging the dining room at the golf course.

The Board has approved plans for selling a one-season book for all athletic events during the school year and for selling these books through the Business Office at the time student fees are paid. Plans have been approved for enclosing a section under the northeast corner of the stadium to make provision for indoor track and baseball activities.

The number of students engaged in athletic participation under the sponsorship of the Athletic Department during the 12-month period ending April 1, 1948, was 1581 as compared with 959 the previous year. Providing for an increase of 522 boys in 1947-48 involved large additions in uniforms, equipment, and personnel. The 1581 boys so served for the year 1947-48 were almost four times the 447 cared for in 1945-46.

Some of the increase in student participation in the programs of the Athletic Department came from the following changes in the program:

- a) Initiation of intercollegiate competition for the 150-pound football team. Uniforms were issued to 200 contestants for this team which played four games.
- b) Reactivation of the freshman football team program which had been discontinued for four years. Some 300 men participated.
- c) Expansion of the fencing program through the appointment of a full-time coach.
- d) Reactivation of the gymnastics program and the appointment of a full-time coach for this sport.

The large amount of participation noted above along with a sharp and serious increase in all operating costs resulted in the total costs of the athletic program rising rapidly.

The 1948 swimming team won the

National AAU Indoor Championship; the track team won the Western Conference Indoor and the Outdoor Championships; and the rifle team won first place in the Western Conference Rifle Meet and first place in a sectional meet including five competing schools.

The football season of 1947 brought an unusually powerful and unifying spirit of loyalty and cooperation among the players, coaches, students, faculty and fans. This came during a season when few games were won.

The intramural program, which is given much assistance by the Athletic Department, included 6421 boys on 636 teams in 14 sports during the past year.

Members of the staff of the Athletic Department are speaking or showing motion pictures to groups of people over the state almost every day of the year. Hundreds of such services are given; many requests can not be met because necessary personnel is not available.

Over the years, the Athletic Department has focused its attention on providing the best possible facilities for taking care of the interests of Ohio State University students. The Stadium has made possible many activities which would have been impossible without it. The Natatorium has provided opportunities for outstanding achievement of swimming teams, and for recreation for large numbers of students. The Golf Course has further expanded the ways in which students may find satisfactory competitive and recreational opportunities. There is great need for buildings on the campus to house indoor activities of the baseball, track and football teams, and to provide facilities for the basketball team and for spectators of basketball contests. The Athletic Board has set aside \$610,000 toward the building of further facilities. At present prices, a field house would cost between \$3,000,000 and \$4,000,000. The students are demanding increasingly varied opportunities for intramural and intercollegiate competition. The Athletic De-

partment has encouraged and underwritten many of these activities. The question most pressing of solution is to what extent should the current income be used for expanding the program for the students now in attendance and to what extent should provision for the needs and demands of students now in attendance be curtailed in order to offer

larger opportunities to students yet to come. Some solution to this problem must be reached by the Athletic Board in the near future. In the meantime, it is the desire of the Board and of the Athletic Department to offer to the students and to the University's loyal supporters a most attractive program of competitive athletics.

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The Year in Review

THE launching of the University's largest building program and the bestowing of a record-number of 4,536 degrees and certificates were highlights of the year ending June 30, 1948.

It was a year of fulfillment in many ways. The long-planned and needed building program for which \$18,500,000 had been appropriated by the Ohio Legislature, started with breaking of ground for at least four new buildings before mid-year, 1948. Others were in the advanced planning stage.

The Recitation Building, which is to become the new home for the School of Music, got under way in November, 1947. Work also was started on the Botany and Zoology Greenhouses and a new Central Service Building. Ground was broken in the spring for the new Medical Health Center, largest of all the projects at a cost of more than \$8,000,000. Formal ceremonies were held on May 13, 1948 with the Governor among the participants.

Among the 4,500 graduates receiving the record-breaking 4,536 degrees were 2,200 veterans, indicating that the "bulge" of former servicemen was moving into the upper classes. Veteran enrollment in the Autumn of 1947 stood at 14,473.

With the appointment of Leo L. Rumell as dean of the College of Agriculture a reorganization was effected on Sept. 1, placing the College and the Ohio

Agricultural Experiment Station at Wooster, O., under his direction.

The year also marked the first for the new program of studies in the College of Arts and Sciences leading to the A.B. degree. The College of Pharmacy inaugurated its curricula to cover a total of five years instead of four. A new Department of Welding Engineering was established. A Geological Field Station was opened at Ephriam, Utah.

Among the important research accomplishments announced at the University during the year was that of the discovery of the potential importance of radioactive cobalt to the treatment of certain types of cancer.

In a year in which enrollment reached a new peak of 25,418, the largest department in number of students was Economics with 6,335 registrations.

Appointments

Major appointments to the University staff during the year included:

Colonel Carlos Brewer, professor of military science and tactics.

Clarid C. McNeil, director, School of Social Administration.

Raymond F. Sletto, professor of sociology.

Max R. Goodson, assistant dean and coordinator of research and service, College of Education.

Leonard O. Andrews, coordinator of

Student Field Experience, College of Education.

Harvey S. Moyer, assistant dean, Graduate School.

Leo L. Rummell, Dean, College of Agriculture.

Wilbur B. Wood, junior dean, College of Agriculture.

Chester S. Hutchison, associate dean, College of Agriculture.

David F. Miller, chairman, Department of Zoology and Entomology.

Harvey C. Mansfield, chairman, Department of Political Science.

George E. Large, chairman, Department of Civil Engineering.

Kent Kennan, professor of theory and composition, School of Music.

J. Marshall Hanna, professor of business education.

Manuel Barkan, director of teacher training, School of Fine and Applied Arts.

Andre R. Deladrier, fencing coach.

Claude M. Simpson, professor of English.

Laurence A. Kauffman, professor of Animal Husbandry.

Donald G. Edgar, placement director, College of Arts and Sciences.

Dr. Hugh J. Means, chairman, Department of Radiology.

Dr. Arthur M. Culler, chairman, Department of Ophthalmology.

Dr. Jay J. Jacoby, director, Division of Anesthesia, University Hospital.

Dr. Allan C. Barnes, chairman, Department of Obstetrics and Gynecology.

Lewie C. Stephens, personnel director, Ohio State University.

Fordyce Ely, chairman, Department of Dairy Husbandry.

Lester L. Stout, assistant to director, Research Foundation.

Harold P. Fawcett, chairman, Department of Education.

Robert E. Rockwood, chairman, Department of Romance Languages.

Joseph H. Koffolt, chairman, Department of Chemical Engineering.

Mars G. Fontana, chairman, Department of Metallurgy.

Dr. Russell E. Rebrassier, secretary of College of Veterinary Medicine.

Dr. Walter G. Venzke, chairman, Department of Veterinary Medicine.

Dr. Clarence R. Cole, chairman, Department of Veterinary Pathology.

Ralph E. Bender, chairman, Department of Agricultural Education.

Thomas S. Sutton, chairman, Department of Agricultural Bio-chemistry.

Harold Zink, professor of Political Science.

Clarence A. Forbes, professor of Classical Languages.

Leland I. Cothorn, professor of Mine Engineering.

Retirements

Ten members of the teaching staff who retired during the year were:

John F. Cunningham, dean of the College of Agriculture for 15 years.

Professor Charles C. Stillman, director of the School of Social Administration for 15 years and faculty member for 18 years.

Professor James R. Hopkins, director of the School of Fine and Applied Arts for 14 years.

Professor Lynn W. St. John, athletic director for 33 years and chairman of the physical education department.

Professor Clyde T. Morris, chairman of the Civil Engineering Department and staff member for 41 years.

Professor Leonard W. Goss, chairman of the Veterinary Pathology Department, staff member for 27 years.

Professor Alice R. Robinson, staff member of the School of Fine and Applied Arts for 36 years.

Professor Frederick C. Landsittel, for 29 years a member of the Education Department.

Professor Carl W. Gay, faculty member in the Animal Husbandry Department for 27 years, of which he served 20 as department chairman.

Professor Guy W. Conrey, Agronomy Department staff member for 31 years.

Professor Montgomery Pike, member of the Business Organization staff for 39 years.

Professor Robert G. Patterson, member of the staff, School of Social Administration, for 10 years.

Deaths

Deaths of 14 staff members occurring during the year included:

Victor A. Ketcham, Speech Department faculty member and former departmental chairman, July 20, 1947.

Julius F. Stone, chairman emeritus of the University's Board of Trustees, July 25, 1947.

Frank H. Beach, professor in the Department of Horticulture and Forestry, October 22, 1947.

Dr. Walter R. Hobbs, Sr., secretary of the College of Veterinary Medicine, October 24, 1947.

Ivan McKellip, professor and extension specialist in Animal Husbandry, October 31, 1947.

Earl B. Tussing, professor in the Horticulture and Forestry Department staff, November 27, 1947.

Wesley G. France, professor of colloid and electrochemistry, December 4, 1947.

Alva W. Smith, professor of physics, January 21, 1948.

William S. Hendrix, professor of Romance languages and department chairman, March 21, 1948.

Dr. Raymond J. Seymour, emeritus professor of physiology, April 10, 1948.

Guy W. Conrey, professor on the Agronomy Department staff, April 20, 1948.

Embury A. Hitchcock, dean emeritus of the College of Engineering, April 29, 1948.

George A. Washburne, professor of history and department chairman, May 11, 1948.

Arthur W. Hodgman, emeritus professor of classical languages, May 17, 1948.

Graduations

At the four quarterly graduation exercises, a total of 4,536 degrees and certificates were awarded to 4,500 graduates. Speakers and the numbers in each class were:

Summer—Dr. Donald P. Cottrell, dean of the Ohio State University College of Education; 972 graduates.

Autumn—President Raymond Walters, University of Cincinnati; 688 graduates.

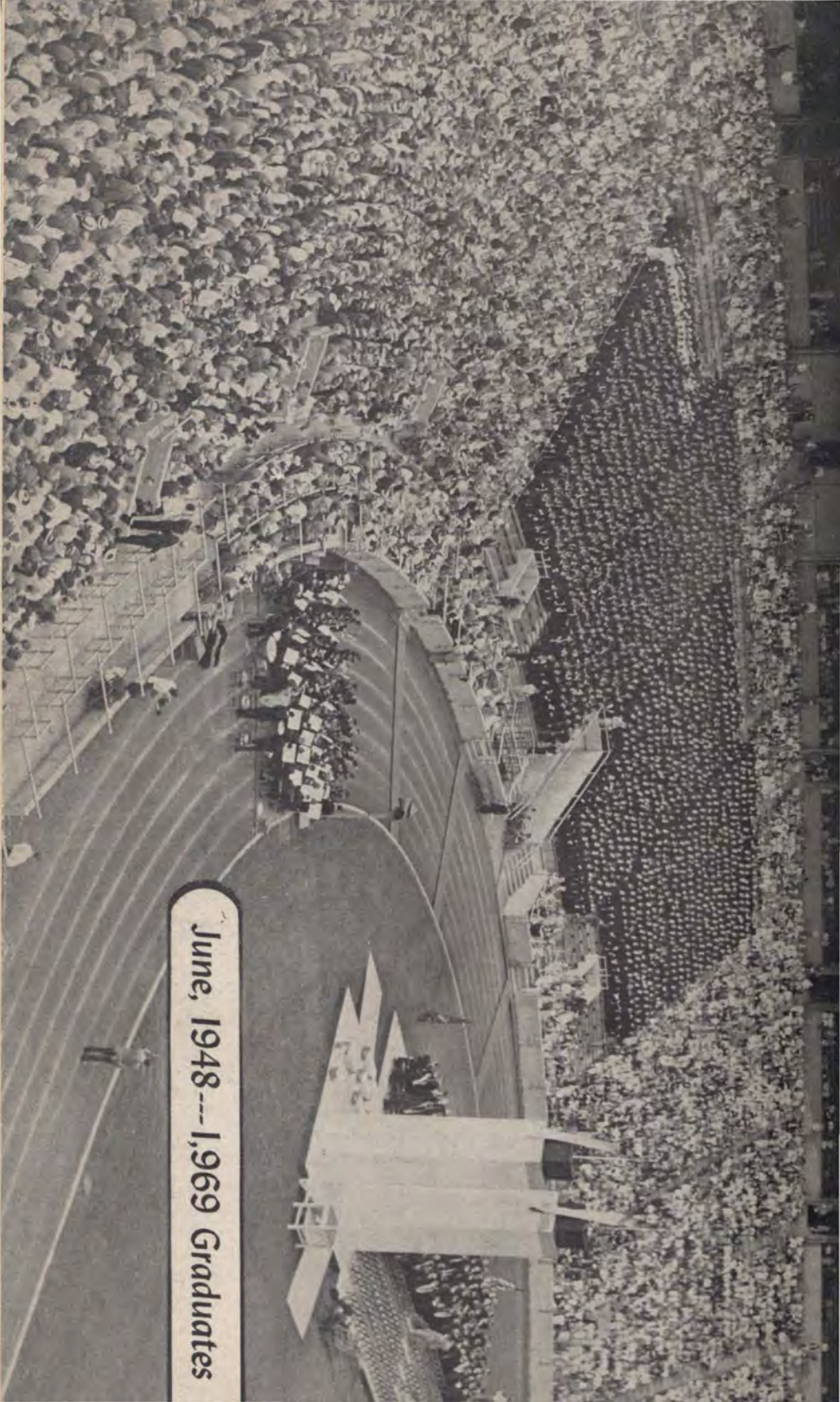
Winter—President Winfred G. Leutner, Western Reserve University; 871 graduates.

Spring—Carl V. Weygandt, Chief Justice, Supreme Court of Ohio; 1,969 graduates.

Seven honorary degrees were conferred during the June convocation upon the following distinguished members of the University's faculty: James R. Hopkins, emeritus professor of Fine Arts; Boyd H. Bode, emeritus professor of Education; Charles C. Stillman, emeritus professor of Social Administration; William Lloyd Evans, emeritus professor of Chemistry; Joseph A. Leighton, emeritus professor of Philosophy; and Dr. Verne A. Dodd, professor of Surgery and Chief of Staff, University Hospital.

The honorary degree of Doctor of Laws was conferred earlier in the day at the Faculty Club on William E. Henderson, emeritus professor of Chemistry, who was unable to attend the graduation ceremonies because of ill health.

The Ohio State Lamme Medal, presented annually to an alumnus for eminence in engineering, was awarded Earle C. Smith, of Cleveland Heights, chief metallurgist of the Republic Steel Corporation.

A black and white photograph of a large stadium filled with graduates in June 1948. The stadium is packed with people, mostly young men in suits and hats, and some women. They are standing in the bleachers and on the field. The field is a large, open area with a few people standing on it. The stadium has a high, arched roof. The text "June, 1948---1,969 Graduates" is written in a white box at the bottom of the image.

June, 1948---1,969 Graduates